

# **Peace River and Withlacoochee River Threats Assessments and Fish Assemblage Monitoring**

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## ABSTRACT

The Peace River (106 miles) and Withlacoochee River (141 miles) are large blackwater rivers in peninsular Florida. Both watersheds have experienced high levels of habitat degradation due to urbanization, agriculture, industry, mining, and altered flow regimes. The objectives of this project were to: (1) identify and inventory the location and magnitude of habitat degradation within the Peace River and Withlacoochee River, including their navigable tributaries; (2) identify and inventory fish passage impacts at road crossings in the watersheds; (3) develop restoration recommendations at each impacted location; (4) develop, for each basin, a prioritized Basin Restoration Plan for state, federal, and local agencies and private landowners to implement conservation and restoration efforts; and (5) conduct a fish assemblage assessment of the Withlacoochee River evaluating fish population metrics (diversity, species richness, etc.) and general habitat associations.

We identified and assessed the severity of site-specific impairments at locations in the Peace River and Withlacoochee River watersheds, following standardized methods developed by the United States Fish and Wildlife Service and The Watershed Assessment of River Stability and Sediment Supply. Field sampling was conducted to collect the necessary data for scoring the threat of degradation at each impairment site and unpaved road crossing site. We assessed approximately 167.7 river miles in the Peace River Watershed and evaluated 512 impairment sites and 62 unpaved road crossing sites. Results revealed that certain reaches of stream and riparian habitats have been severely degraded, primarily due to ranching, agriculture, and denuded riparian forests. In the Withlacoochee River Watershed, we assessed approximately 131.6 river miles and evaluated 24 impairment sites and 20 unpaved road crossing sites. Overall, the assessed areas within the watershed were stable and riparian buffers were in excellent condition. While we located few impairment sites within the Withlacoochee River Watershed, the dam structures at Lake Rousseau pose the single largest threat to the river system by negatively impacting water quality, aquatic species, sediment transport, and instream habitat.

All road crossings and impairment sites in the navigable reaches and public unpaved road crossings in non-navigable reaches were assessed for fish passage blockage. Fish passage barriers impact aquatic Species of Greatest Conservation Need and other aquatic species from accessing and utilizing historical habitats. We identified 18 fish passage barriers in the Peace River Watershed and 3 fish passage barriers in the Withlacoochee River Watershed.

Restoration recommendations for impairment sites were developed into 3 summarized options based on river geomorphology and the cause of degradation. For unpaved road crossing sites, we included general restoration recommendations that aim to reduce stream impacts including excessive sedimentation, channel alteration, and fish passage blockages. Impairment sites were prioritized for restoration using Geographic Information System heatmaps that were weighted by site abundance, site length, and calculated severity scores. Unpaved road crossing sites were subjectively prioritized into focal areas based on location within subwatersheds, number of sites, and Sediment Risk Index scores. Our Basin Restoration Plan recommends that focal areas take restoration priority, since they are concentrated areas of habitat degradation where multiple sites could be restored concurrently to minimize costs.

Withlacoochee River fish assemblage monitoring events were conducted each spring from 2016 to 2018. These sampling efforts represent the first comprehensive fish surveys following the Florida Fish and Wildlife Conservation Commission's Long Term Monitoring standardized protocol on the navigable portion of the Withlacoochee River. Spring sampling yielded a total of 16,277 fish, comprised of 29 families and 54 species.



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## INTRODUCTION

Habitat degradation is the primary factor causing the decline of biodiversity in aquatic ecosystems of the southeastern United States (Warren et al. 2000). Many of the rivers and streams in this region, which contain the highest aquatic biodiversity in North America (Warren and Burr 1994, Lydeard and Mayden 1995), have been impacted by the effects of habitat degradation, alteration, conversion, and loss (Estevez et al. 1991). Sedimentation is one of the main issues causing degradation, loss of habitat complexity, and impairment of river habitat and biological communities (Waters 1995). Sedimentation occurs naturally in rivers and is dependent on bed and bank material, stream morphology, riparian vegetation, valley slope, water supply, and woody debris (Allan 2004). However, sedimentation is exacerbated by anthropogenic drivers including poorly-managed agricultural practices, mining, deforestation, construction, and road crossings (Wood and Armitage 1997, Grayson et al. 1993). Additionally, studies have shown that streambank erosion in unstable rivers can account for up to 80% of the sediment supply (Simon 1989). Stream channel instability and accelerated erosion can have severe biotic impacts on food chains, habitat complexity, spawning and rearing habitats, instream cover, and water temperatures (Wood and Armitage 1997). The initial step in conserving and restoring function and biodiversity of rivers affected by habitat degradation is identifying those areas contributing to habitat degradation throughout the river system.

The Peace River Watershed (2,340 mi<sup>2</sup>) and Withlacoochee River Watershed (2,082 mi<sup>2</sup>) are ranked as priority enhancement basins by Florida's Wildlife Legacy Initiative's (FWLI) State Wildlife Action Plan (SWAP). Further, FWLI has identified a goal with three objectives focusing on the basin approach. The 2012-2018 freshwater goal was: improve or maintain hydrologic conditions, water quality, or physical habitats for the support of Species of Greatest

Conservation Need (SGCN) in freshwater systems within high-ranking basins. To meet this goal, FWLI created objectives, with objective 2 being: by 2017, conduct a threats assessment of at least one high-ranking enhancement (peninsular) basin. This project addressed the need for a riverine threats assessment on two priority enhancement basins, both within peninsular Florida.

The objectives of this project were to: (1) identify and inventory the location and magnitude of habitat degradation within the Peace River and Withlacoochee River, including their navigable tributaries; (2) identify and inventory fish passage impacts at road crossings in the watersheds; (3) develop restoration recommendations at each impacted location; (4) develop, for each basin, a prioritized Basin Restoration Plan for state, federal, local agencies, and private landowners for implementing conservation and restoration efforts in the basins; and (5) conduct a fish assemblage assessment of the Withlacoochee basin evaluating fish population metrics (diversity, species richness, etc.) and general habitat associations.

## **Study Area**

The Peace River (106 miles) flows south from its headwaters in Green Swamp to Charlotte Harbor, Florida's second largest open-water estuary (Figure 1). The economic value of recreational and commercial fishing in the Charlotte Harbor area was estimated to exceed \$1 billion annually by the Southwest Florida Water Management District (SWFWMD 2000). While water quality in the harbor is generally considered "good", SWFWMD (2000) expressed concern regarding reduced streamflow in the Peace River and areas within the river where water quality is listed "impaired". Maintaining or enhancing habitat within the Peace River is imperative not only for the river ecosystem, but also for the long-term maintenance of Charlotte Harbor. In addition, the Peace River basin is home to approximately 25 state-listed freshwater obligate SGCN.

The Withlacoochee River (141 miles) originates in the Green Swamp and flows northwest through a diverse range of habitats to Withlacoochee Bay before flowing into the Gulf of Mexico (Figure 1). High urban development, pollution, and altered flow regimes pose several threats to water quality within the watershed (Estevez et al. 1991). Also, the lower Withlacoochee has been severely impacted by the construction of the Cross-Florida Barge Canal in the 1960's (FWC 2012). A number of state-listed freshwater obligate SGCN fauna (n = 33; mammals, birds, fish, mussels, etc.) occur within the Withlacoochee basin.

## **METHODS**

Field surveys were used to identify and assess the severity of site-specific impairments at locations along the Peace River, the Withlacoochee River, and their major tributaries. At the onset of the study, project field staff completed a threats-assessment training course at the United States Fish and Wildlife Service (USFWS) office in Panama City, FL. Training provided the knowledge and skills needed to identify evidence of impairments within the watersheds. Project staff also learned the surveying methods needed to collect data for assessing the severity of impairments. Additionally, the project leader attended all 4 levels of David Rosgen's hydrology short courses including: Applied Fluvial Geomorphology, River Morphology and Applications, River Assessment and Monitoring, and River Restoration and Natural Channel Design. This coursework significantly benefited the stream team's knowledge of river assessment, classification, and restoration practices. Surveys focused on two types of threats: impairment sites, which may occur anywhere within a navigable river or stream, and unpaved road crossings, which occur at an intersection of an unpaved road with a river or stream, typically occurring on non-navigable streams. Additionally, surveyors documented locations, took photos, and recorded observations in noteworthy areas that did not fit into the impairment site criteria (e.g.,

areas of cattle crossings and fencing, non-navigable tributaries that may be degrading water quality, housing or seawalls, clearings, etc.).

### **Impairment Sites**

Stream and river segments were assessed by canoe, boat, airboat, or on foot to identify areas that exhibited evidence of impairment. This included active bank erosion, bank mass-wasting, sediment deposition, riparian zone degradation, channel alteration, and potential areas of non-point source pollution (NPSP). At each impairment site identified during the survey, data were collected to complete habitat evaluation data sheets, digital photographs were taken, and beginning and ending Global Positioning System (GPS) coordinates were recorded. Data collected at each impairment site included the following categories: (1) quantitative in-stream features (bankfull width and height, water depth at thalweg, percent canopy cover, percent macrophyte cover, reach length of impact, depth profile, and near-bank maximum depth); (2) qualitative in-stream features (Pfankuch channel stability index [modified for sand bed streams], in-stream woody material, substrate composition, bank material, fish passage barriers, presence of dams or similar stream barriers, channel alteration, and shoring structures); (3) quantitative riparian features (buffer width, floodplain width, bank angle, percent bank root density, bank rooting depth, bankfull height, bank height, and bank surface protection); (4) qualitative riparian features (riparian land use, floodplain access, bank erosion, and livestock access); (5) presence of stream barriers and crossings, unpaved roads or paths, pipe discharges, and trash debris; (6) paved road crossing details, if applicable (road condition, crossing type and structure, road type, and culvert or bridge description); and (7) field conditions at time of survey (current and previous weather and in-stream flow conditions).

Data were analyzed using a scoring system developed for threats assessments in the Florida panhandle (Rosgen 1996, Rosgen et al. 2009, USFWS 2014). For each site, the scoring system generated a “Severity Score” that represented the degree of impairment. The scoring system for impairment sites consisted of 11 threat factors, which were assigned a score ranging from 0 to 1.5, based on data collected at each impairment site (Table 1). The “Severity Scale” ranged from 0 to 16.5 and was subjectively divided into 3 categories (Herrington et al. 2011): “Low Severity” (scores 0-4.0), “Moderate Severity” (scores 4.25-7.25), and “High Severity” (scores 7.5-16.5). Results from this scoring system were used to develop an inventory of site-specific impairments in the Peace River and Withlacoochee River watersheds and to prioritize restoration recommendations.

### **Unpaved Road Crossings**

Unpaved road crossing sites were located using Geographic Information Systems (GIS), google earth, gazetteers, and ground-truthing. At each site, data were collected to complete unpaved road crossing evaluation data sheets (Figure 2), digital photographs were taken, and GPS coordinates were recorded. Data collected at each unpaved road crossing included the following categories: (1) qualitative features (channel morphology and alteration); (2) quantitative and qualitative crossing structure features (crossing type, material, dimensions, upstream skew angle, crossing fill condition, and crossing inlet/outlet condition); and (3) quantitative and qualitative road approach features (dimensions, potential erodible volume, soil type, slope, surface material, and outlet and ditch material).

Data were analyzed using a scoring system based on the Sediment Risk Index (SRI) Manual for Unpaved Road-Stream Crossing Assessment developed by the USFWS and Three Rivers Resource Conservation and Development Council (Witmer 2009). This condensed field



guide was derived from 3 manuals: Development and Use of a Sedimentation Risk Index for Unpaved Road-Stream Crossings in the Choctawhatchee Watershed, the Northwest Florida Unpaved Road-Stream Crossing Manual, and the Recommended Practices Manual: A Guideline for Maintenance and Service of Unpaved Roads (Witmer 2009). For each site, the scoring system generated a SRI value that represented the degree of severity of impairment. The scoring system for unpaved road crossings consisted of 18 risk factors, which were given a score ranging from 0 to 5 (Figure 2). The SRI scale ranged from 12-60 and was divided into 3 categories: “Low Risk” (scores 46-60), “Moderate Risk” (scores 37-45), and “High Risk” (scores 12-36). Results from this index were used to develop an inventory and condition assessment of all accessible unpaved road crossing sites in the Peace River and Withlacoochee River watersheds.

### **Site Prioritization Methods**

Impairment sites were prioritized for restoration using GIS heatmaps that were created for both the Peace River and Withlacoochee River watersheds. Heatmaps are visual representations of data, where data values are displayed in a matrix of colors. Additionally, heatmaps display the density of a study feature and can be weighted based on study objectives or questions. For our study, GIS heatmaps were weighted based on 3 variables (site abundance, site length, and calculated severity scores) to generate heatmap rankings. Heatmaps were used to identify “hot spots” or restoration focal areas, where localized stretches of streambank scored highest in terms of these 3 variables. This focal area ranking was modeled after the “Inventory and Prioritization of Impaired Sites in the Yellow River Watershed in Alabama and Florida”, in which these categories provide a restoration plan that will minimize cost while completing the highest amount of restoration, i.e., “biggest bang for the buck” (Herrington et al. 2011). Restoring

multiple impairment sites (large-scale restoration) in a river reach at the same time will minimize costs associated with survey, design, permitting, and construction on a foot by foot basis.

Heatmaps were not suitable for unpaved road crossings due to the localized nature of sites within both watersheds. Additionally, it was not applicable to combine unpaved road crossing sites with impairment sites for heatmap production, since they utilize different scoring systems. Therefore, unpaved road crossing sites were prioritized into separate focal areas using location within subwatersheds. Focal areas were then prioritized based on the number of sites and associated SRI scores.

### **Land Use Land Cover**

Land use land cover (LULC) estimates for each watershed were completed in ArcGIS (ESRI 2014) using the 2010 Cooperative Land Cover v2.3 file geodatabase. These data were compiled from multiple sources including Florida Natural Areas Inventory, Florida Department of Environmental Protection (DEP), Florida Fish and Wildlife Conservation Commission (FWC), Yale Mapping Framework, Kresge Foundation, and water management districts. To streamline the data within the Cooperative Land Cover geodatabase, the 59 codes in the Florida Land Use, Cover and Forms Classification System (DOT 1999) were consolidated into 8 classes including: developed, mining, natural forest, open water, pasture, prairie/scrub, tree crops, and wetland.

### **Fish Assemblage Assessment**

Transect sampling was conducted on the Withlacoochee River using a 4.9 m aluminum electrofishing boat with a Smith-Root<sup>TM</sup> 7.5 GPP unit. During each 100 m electrofishing transect, a pulsed direct current was emitted from the boat to temporarily stun fish for collection. Electrofishing surveys were conducted annually for a three-year period during the spring season

when the river was typically near baseflow water levels (southern hydrologic pattern). Fall sampling events were added to the monitoring schedule in 2016 and 2017 to help gain insight on possible seasonal influences of fish communities. However, these data were largely not included into this final report due to low catchability in the fall 2017 sampling event following Hurricane Irma. As a result, we only had 1 fall fish data set to compare with 3 years of spring data. However, we did include 2 species collected during fall sampling into our total fish presence-absence data, as to compare with historical fisheries data collections.

The primary focus of this sampling was to collect comprehensive fish assemblage data within the entire navigable length of the river including: relative fish abundance and percent composition; and species richness, diversity, and evenness. Fish were collected following FWC standardized Long-Term Monitoring protocols developed for lotic systems by Strickland et al. (2011). The river was divided into three segments (lower, middle, and upper) based on man-made obstructions (Inglis Dam and Wysong-Coogler Water Conservation Structure, Figure 3). In order to determine transect locations, we created a shapefile in ArcGIS (ESRI 2014) with numbered transect points every 25 m along the centerline of each river segment. Using Microsoft Excel, we applied a random number generator to select transects and riverbank side (left or right). Each year, 35-39 transects were sampled along the shoreline and stunned fish were collected using long handle dip nets. All fish collected from each transect were placed into a livewell and then identified, measured (total length to nearest mm), and weighed (wet weight to nearest g) prior to being released. Fish not readily identifiable in the field were placed on ice and brought back to the lab for identification. At the end of each electrofishing transect, effort (seconds), water depth range, average water depth, shoreline type, canopy coverage, instream habitat coverage, and substrate type were recorded. General water quality parameters (dissolved

oxygen [mg/l], salinity [ppt], specific conductivity [ $\mu\text{S}/\text{cm}$ ], and temperature [ $^{\circ}\text{C}$ ]) were measured using a Yellow Springs Instrument Pro 2030. Turbidity was measured using a 0.2 m diameter Secchi disk. All data were entered into the FWC Freshwater Fisheries Long Term Monitoring Database.

Relative fish abundance was calculated by species and for the community as a whole using catch-per-unit-distance (CPUD) for all Withlacoochee River fish data and for each segment. Specifically, CPUD (fish/km) was calculated as amount of fish caught per a unit of distance (100 m) of electrofishing, multiplied by 10. To evaluate fish community composition, we quantified species diversity ( $H'$ ), evenness ( $E$ ), and richness ( $R$ ) for all 3 years of spring Withlacoochee River fish data and for each segment. The Shannon-Weiner Diversity Index was calculated as follows:

$$H' = - \sum_{i=1}^S (p_i)(\log_e p_i)$$

where,  $s$  = the number of species and  $p_i$  = the proportion of the total sample represented by the  $i$ th species (Shannon and Weaver 1949). Values of the Shannon-Weiner diversity index ( $H'$ ) for real biological communities often fall between 1.5 – 3.5 (Stiling 1999). Evenness ( $E$ ), based on the Shannon-Weiner Diversity Index, was calculated as follows:

$$E_H = \frac{H}{H_{max}} = \frac{H}{\ln S}$$

where,  $H_{max}$  = total species and  $H'$  = the result of the Shannon-Weiner Diversity Index (Stiling 1999). Evenness refers to the similarity of frequencies of different species within a biological community. Evenness values range between 0 and 1, with 0 representing no evenness and 1 being complete evenness. Species richness ( $R$ ) was defined as the total number of fish species found in a sample area.

## RESULTS

### Peace River Watershed

#### *Location and Magnitude of Habitat Degradation*

The Peace River Watershed is primarily an unconfined alluvial valley flowing through unconsolidated quartz sand, silt, and clayey sand sediments (DEP 2001, Figure 4). The LULC was predominately agriculture (39.7%) including pasture and tree crops (primarily citrus, Figure 5). Developed areas and phosphate mining accounted for 23.7% of the LULC. Natural areas consisting of wetlands, natural forest, prairie/scrub, and open water accounted for 36.6% of the LULC.

Approximately 167.7 river miles were assessed for impairments on the main stem of the Peace River and navigable tributaries (Figure 6, Table 2). A total of 512 impairment sites was identified, including 321 ranked “Moderate Severity”, 181 ranked “Low Severity”, and 10 ranked “High Severity” (Figure 7, Table 3). There was a total of 113,971 linear feet of impairment sites, which included 78,048 feet ranked “Moderate Severity”, 33,026 feet ranked “Low Severity”, and 2,898 feet ranked “High Severity”. We identified and scored 62 unpaved road crossing sites in the Peace River Watershed (Figure 7, Table 4). The majority (72.6%) of the SRI scores were “Low Risk”, followed by “Moderate Risk” (21.0%) and “High Risk” (6.5%). Individual impairment site and unpaved road crossing site summaries are included in Appendices A and B, respectively.

#### *Fish Passage Impacts at Road Crossings*

All road crossings and impairment sites in the navigable reaches and public unpaved road crossings in non-navigable reaches were assessed for fish passage blockage. A total of 18 fish passage barriers were identified in the Peace River Watershed, including 15 unpaved road

crossing sites, 1 paved road crossing site, 1 dam (Shell Creek Dam), and 1 water control structure (Lake Hancock outfall). It is important to note that we identified hundreds of unpaved road crossings that could not be assessed for SRI or fish passage blockages due to their location on private lands.

### ***Restoration Recommendations at Each Impacted Location***

Generally, our river restoration recommendations are to use NCD methodologies instead of hard structures like gabions, concrete lined channels, rip rap, and log cribs. The NCD approach to river restoration focuses on emulating a natural stable river system that is self-regulating and functioning (Rosgen 2011). The primary benefits of NCD include: reduction of accelerated erosion rates, floodplain connectivity, low maintenance costs, improved aquatic habitat, riparian habitat restoration, enhanced water quality, aesthetic value, and lower cost than traditional methods. For more information regarding NCD please review the following articles: Rosgen (2011) and Harman and Starr (2011).

Restoration recommendations for impairment sites were developed into 3 summarized options (Table 5). The recommended option for each site was specified in the notes section of each individual impairment site summary (Appendix A). Restoration option 1 was generally recommended for impairment sites that occurred on the outside meander bend of the river, due to the high near-bank shear stress environment. Conversely, areas of low near-bank shear stress, often located in straight sections of the river or inside meander bends, were recommended to be restored with option 2 or 3.

For unpaved road crossing sites, restoration recommendations aim to reduce common stream impacts such as sedimentation, erosion, channel alteration, fish passage blockages, loss of aquatic habitat, and lack of floodplain connectivity. For a more in-depth review of methods to

reduce environmental impacts at unpaved road crossings please see Rainer (2005). Generally, we recommend paving unpaved road crossings and installing resilient crossing structures that can accommodate large storm events (i.e., 100-year flows). Crossing structures should be able to convey bankfull flows, sediment, and woody debris without altering upstream or downstream channel morphology. Culverts, box culverts, and bridges should be properly positioned and oriented with the natural flow of the stream channel to prevent high skew angles. Culverts should be adequately sized (culvert width 1.2 times bankfull width, multiple culverts may be needed), footed for the maximum scour depth, and positioned (same grade as stream channel) to prevent outfall drops and retain native substrate. When possible, contractors should use open bottom culverts or buried culverts (culvert bed should match stream bed sediments) and additional floodplain relief culverts.

### ***Prioritized Restoration Plan***

Restoration for the Peace River Watershed was prioritized into 3 categories including: impairment site heatmap focal areas, impairment site tertiary locations, and unpaved road crossing site focal areas. Impairment site heatmap focal areas were defined as clusters of impairment sites with moderate to high severity scores. Impairment site tertiary locations were defined as all remaining impairment sites that were not captured within the heatmap focal areas. Unpaved road crossing site focal areas consisted of all accessible, public intersections of unpaved roads and the rivers or tributaries within subwatersheds. Restoration of focal areas, tertiary areas, and unpaved road crossings would provide functional lift to riparian habitats, instream habitats, and water quality.

We identified 10 impairment site heatmap focal areas comprising 37.0 river miles, or 22.1% of the entire surveyed area within the Peace River Watershed (Figure 8). This included 6

focal areas along the main stem of the Peace River, 2 in Charlie Creek, 1 in Horse Creek, and 1 in Prairie Creek. Focal areas contained 286, or 55.9%, of the impairment sites and 77,551 linear feet, or 68.0%, of the impaired streambank length identified within the entire watershed (Table 6). Moreover, focal areas contained 73.1% of the total number and 81.5% of the total length of impaired sites that ranked “Moderate Severity” or “High Severity” within the entire watershed. In other words, 81.5% (by length) of the moderately- or highly-impaired streambank occurred within 22.1% of the surveyed area. Thus, impairment site focal areas contain the largest contributors to habitat degradation and therefore are critical to management and restoration of the Peace River Watershed.

Focal areas were subjectively numbered and organized based on the degree that the heatmap highlighted impaired areas. Generally, numbering of focal areas followed a highest to lowest degree of impairment and unpaved road crossing per area. However, this should not be misinterpreted to indicate that restoration must follow a particular order. Appropriate restoration will ultimately depend upon agency motivation, landowner participation, and availability of funding – regardless of the order completed. Overall, any restorative actions that provide functional lift to the watershed are encouraged.

#### *Impairment Site Focal Areas and Tertiary Locations*

##### **Peace River 1 Focal Area (PR1)**

PR1 (6.4 river miles) is centrally located in the Peace River Watershed between Zolfo Springs and Gardner, FL in Hardee County. The primary riparian land use types in this focal area were pasture and to a lesser degree natural forest. There were no housing or development observed in the riparian corridor. Impairment site severity scores ranged from 3.0 to 7.0. A total of 63 impairment sites were located within PR1, including 57 ranked “Moderate Severity” and 6



ranked “Low Severity” (Table 6, Figure 9). The total length of impairment sites was 15,915 linear feet, including 14,745 feet ranked “Moderate Severity” and 1,170 feet ranked “Low Severity”. The primary causes of impairment were degraded riparian buffers, obvious NPSP (cattle waste), moderate to high Bank Erosion Hazard Index (BEHI) scores, partial floodplain access, and poor Pfankuch-Channel Stability ratings. The main cause of channel instability in this focal area was likely related to the impact of cattle grazing in the riparian corridor. This has led to active and mass-wasting bank erosion throughout the reach, as well as excess sediment to the channel, resulting in filling of channel habitats. Very limited and insufficient cattle fencing was observed in this area to prevent cattle from accessing the river corridor. Regular cattle grazing within the riparian corridor prevents establishment of vegetation that may otherwise stabilize streambanks. Additionally, during surveys we observed that some riparian areas were cleared for farm roads along the river, which has also led to bank erosion and channel instability. Due to excess sediment in this reach, several long, straight, shallow, and over-widened streambed features have formed between meander bends; these may deter aquatic species passage during periods of low flow.

Two recent channel avulsions (took place over the past 30 to 40 years based on aerial imagery) were documented in the center and lower section of PR1. The avulsions were both likely a result of channel aggradation due to the river’s high sediment load, and the river responded by following the fall line of the valley. In both cases, we documented several impairment sites related to the avulsions. In the centrally located avulsion, the entire outside meander bend of the new channel was actively eroding, as well as the location where the main channel meets the two threads. In the lower avulsion, each outside meander bend on the newly formed channel were actively eroding. In both cases, restoration recommendations included

stabilizing the newly formed channel using NCD and creating off channel habitat ponds or wetlands with the old channel locations.

All impairment sites were located on 3 privately-owned properties, which could potentially make large scale restoration a possibility if landowner participation is favorable. Additionally, river segments downstream of the focal area have been placed on the EPA's 303d list of impaired waters for dissolved oxygen and coliform bacteria, which may be related to cattle waste and sediment from bank erosion entering the river.

#### Peace River 2 Focal Area (PR2)

PR2 (4.1 river miles) is centrally located in the Peace River Watershed between Zolfo Springs and Gardner, FL in Hardee County. This focal area is immediately downstream of PR1. The primary riparian land use types consisted of pasture and to a lesser degree natural forest. A total of 49 impairment sites were identified in PR2 and severity scores ranged from 2.5 to 7.5 (Table 6). The majority of sites (n = 42) scored "Moderate Severity", 5 sites ranked "Low Severity", and 2 sites ranked "High Severity" (Figure 10). The total length of impairment sites was 11,944 linear feet, including 9,932 feet ranked "Moderate Severity", 1,191 feet ranked "Low Severity", and 821 feet ranked "High Severity". Impairment causes in PR2 were similar to PR1, and were generally due to poor riparian condition, obvious NPSP sources (cattle waste), moderate to very high BEHI scores, limited floodplain access on outside meander bends, and poor Pfankuch-Channel Stability ratings. This focal area was characterized as active or mass wasting banks at nearly every outside meander bend which was caused by the high near-bank shear stress and very little riparian vegetation to stabilize the banks. Most of the large woody debris was highly mobile and not embedded. The main cause of channel instability in PR2 was likely related to poor cattle grazing practices in the riparian corridor. No cattle fencing was observed in this area

to prevent cattle from accessing the river. Cleared farm roads were observed parallel to the Peace River, which removed trees that were previously stabilizing streambanks.

At the upper extent of the reach, a farm road led to a private unpaved road crossing. Since it was private, this road crossing was not assessed with standard methods and was not included with unpaved road crossing assessments. However, no sedimentation or fish passage issues were detected in aerial imagery or assessments from on the water. This farm road was mostly covered in grass and had little traffic. However, the high mobility of large woody debris in the Peace River creates the potential for woody debris jams at this location, which could lead to bank and bed scour without regular maintenance.

All impairment sites in this focal area were located on a single privately-owned property, making largescale restoration a possibility if the landowner is willing to participate in restoration efforts. This reach is producing tremendous amount of sediment, making restoration and bank stabilization a high priority for the health of the Peace River.

### Peace River 3 Focal Area (PR3)

PR3 (5.5 river miles) is also centrally located in the Peace River Watershed between Zolfo Springs and Gardner, FL in Hardee County. This focal area is immediately upstream of PR1 and is the most northern of all the focal areas. The primary riparian land use types were natural forest and pasture. However, the amount of pasture in the riparian corridor was less than that observed in PR1 and PR2. This focal area consisted of 34 impairment sites with severity scores ranging from 3.0 to 9.25 (Table 6). The majority of sites ( $n = 27$ ) scored “Moderate Severity”, followed by “Low Severity” ( $n = 6$ ) and “High Severity” ( $n = 1$ , Figure 11). The total impairment site length in PR3 was 11,012 linear feet, with 8,372 feet ranked “Moderate Severity”, 2,340 feet ranked “Low Severity”, and 300 feet ranked “High Severity”. The main

causes of impairment in the focal area consisted of poor riparian condition, obvious NPSP sources (cattle waste), moderate to very high BEHI scores, limited floodplain access on outside meander bends, poor Pfankuch-Channel Stability ratings, and shoring structure (only one site with rip-rap). The main cause for channel instability was cattle grazing within the riparian corridor and to a lesser extent, clearing for residential housing. Cattle fencing was rare in the focal area; when it did occur, it was close to the streambank and in some cases hanging over the river due to bank failure. Additionally, the majority of impairment sites were categorized as active erosion, not mass-wasting erosion.

There are 2 locations in PR3 where the river is avulsing or cutting a new channel and forming an oxbow. The first avulsion is in the northern portion of the focal area and we identified 4 associated impairment sites (PI127, PI128, PI129, and PI183). The avulsion is probably related to the high sediment load in the river, the lack of riparian cover to stabilize the bank, and the low radius of curvature on this river meander bend. Additionally, the new cut is creating extreme near-bank shear stress where the two channels converge. If restorative actions are taken, all 4 sites should be stabilized together for the greatest benefit at the lowest cost.

The second avulsion is centrally located within the focal area and has resulted in 3 impairment sites (PI132, PI196, and PI197). This avulsion is also related to the high sediment load in the river and the low radius of curvature on this river meander bend. There is a relatively intact riparian zone in the area of avulsion, which has slowed the process considerably. Overall, this area is highlighted since restoration of this section should take into account the river's unique geomorphology.

Impairment sites occurred on 9 different privately-owned properties in PR3. As a result, large scale restoration would require extensive cooperation and coordination among landowners.

This focal area is a large contributor of sediment and NPSP which may contribute to the 303d listing downstream for coliform bacteria.

#### Peace River 4 Focal Area (PR4)

PR4 (5.2 river miles) is located in the lower Peace River Watershed near the town of Arcadia, FL. The primary riparian land use types were pasture, natural forest, and recreation. A total of 23 impairment sites were identified within this focal area (Table 6). Severity scores ranged from 2.25 to 7.5 and included 14 sites ranked “Moderate Severity”, 8 sites ranked “Low Severity”, and 1 site ranked “High Severity” (Figure 12). The total impairment site length for the focal area was 10,193 linear feet, which included 6,608 feet ranked “Moderate Severity”, 3,350 feet ranked “Low Severity”, and 235 feet ranked “High Severity”. The main cause of impairment in PR4 consisted of active and mass-wasting banks, poor riparian condition, NPSP sources (cattle waste), moderate to extreme BEHI scores, limited floodplain access on outside meander bends, poor Pfankuch-Channel Stability ratings (upper reach), and shoring structures (rip-rap). This focal area had moderate cattle use during the time of survey and some areas that appeared to have been historically used, which resulted in an overall lower NPSP potential than previously-reported focal areas.

The focal area has a railroad track that impacted the Peace River in a few locations. In several areas within the reach, the railroad track limits the width of the riparian buffer. Near the upper extent of the reach there is a railroad trestle bridge which was accumulating large woody debris and causing bed and bank scour. The trestle bridge has resulted in sands, gravel and slag entering the river. Additionally, an unnamed, highly agriculturally-impaired tributary with little riparian buffer follows the railway down to the Peace River. Aerial imagery shows excess

sediment deposition in the form of a delta bar at its confluence with the Peace River. This impacted tributary warrants further investigation.

In the upper extent of the reach, there was a significant sedimentation source due to numerous unpaved roads used by all-terrain vehicles near a mobile home park. Most of this area is on an inside meander bend and does not have high near-bank shear stress, which decreases erosion. However, we did locate several impairment sites in this location (PI047, PI049, PI050, PI347, and PI350), including an unpaved boat launch with heavy sediment contribution. In addition, the unpaved roads lead to a heavily eroded point bar or washout, which is a popular recreational site.

Near the upper extent of PR4 lies Morgan Park, a DeSoto County owned property. Five impairment sites were located on the county park property, one of which may be restored soon (PI048). The site's streambank is mass-wasting and putting park trails and county property at risk, as well as impacting the river by smothering downstream habitat and degrading water quality. The Charlotte Harbor National Estuary Program has been collaborating with the SWFWMD and DeSoto county to restore this streambank. Currently, the restoration design is complete for this site, but construction is contingent upon funding.

Impairment sites were located on 8 different privately-owned properties in this focal area. The landowner of the property containing the most southern 2 impairment sites is receptive to river restoration and livestock exclusion by fencing. DeSoto county has shown interest in restoring degraded habitat on their property as well. Additionally, the main stem of the Peace River within this focal area is on the EPA's 303d list of impaired waters for fecal coliform and mercury in fish tissues.

### Peace River 5 Focal Area (PR5)

PR5 (2.8 river miles on the Peace River and 1.0 river miles on Joshua Creek) is located in the lower Peace River Watershed, south of PR4 near the town of Nocatee, FL. Pasture, natural forest, and recreation were the primary riparian land use types in this focal area. A total of 18 impairment sites were located within PR5 and severity scores ranged from 2.75 to 6.75 (Table 6). Out of the 18 impairment sites, 12 ranked “Moderate Severity” and 6 ranked “Low Severity” (Figure 13). Total impairment site length within the focal area was 5,281 linear feet, which included 4,549 feet ranked “Moderate Severity” and 732 feet ranked “Low Severity”. The main causes for impairment in PR5 were active and mass-wasting banks, degraded riparian conditions, NPSP sources (livestock), moderate to high BEHI scores, limited floodplain access on outside meander bends, and poor Pfankuch-Channel Stability ratings (Peace River only). PR5 differs from other focal areas, in that sites were located on the Peace River ( $n = 13$ ) and Joshua Creek ( $n = 5$ ). The section of Joshua Creek that was included in focal area PR5 had a good Pfankuch channel stability rating. In addition, all sites on Joshua Creek had “Low Severity” ratings.

The majority of the sites (12 of 18 sites) in this focal area occurred on 1 landowner’s property, and the landowner has expressed interest in restoring the river along his property. This landowner has approximately 2,200 acres and almost 5 miles of riverfront property, known as the Peace River Preserve. The landowner is conservation-minded and has previously applied for an easement with the Natural Resources Conservation Service (NRCS), but did not finish the application process for unknown reasons.

On the southern extent of PR5 lies an airboat tour business called Peace River Charters. This business, along with high recreational airboat traffic, has impacted this focal area and the focal area to the south (PR6), due to increased wave action and physically driving over river

banks, which is exacerbating streambank erosion through increased shear stress. The Peace River in PR5 has been placed on the EPA's 303d list of impaired waters for fecal coliform and mercury in fish tissues. The high fecal coliform levels are likely related to cattle grazing upstream of this focal area, as well as local NPSP.

#### Peace River 6 Focal Area (PR6)

PR6 (2.4 river miles) is located in the lower Peace River Watershed, downstream of PR5 and south of the town of Nocatee, FL. The primary land use types in the riparian areas were pasture and natural forest. A total of 9 impairment sites, ranging from 4.25 to 7.0 were located within this focal area (Table 6). All sites ranked "Moderate Severity" and their total impairment site length was 2,902 linear feet (Figure 14). Impairments were primarily due to active and mass-wasting banks, degraded riparian conditions, NPSP sources (cattle), moderate to high BEHI scores, limited floodplain access on outside meander bends, and a poor Pfankuch-Channel Stability rating. Channel instability in PR6 was likely related to poor cattle grazing practices in the riparian corridor combined with airboat traffic, as described in PR5. Limited cattle fencing was observed in this area to prevent cattle from accessing the river. In some areas, cattle fencing was hanging over the river due to streambank erosion. Impairment sites were located on 3 privately-owned properties and 1 publicly-owned property (Florida Forest Service). Focal area PR6 is not on the EPA's 303d list of impaired waters.

There was an "older" channel avulsion on the lower extent of this focal area. No impairment sites were located related to the avulsion, suggesting it occurred a relatively long time ago and banks were able to stabilize naturally. Review of aerial imagery going back to 1994 showed that this was not a recent avulsion. This likely occurred due to the high sediment



load in the river, which caused aggradation and the river responded by following the fall line of the valley.

#### Charlie Creek 1 Focal Area (CC1)

CC1 (3.6 river miles) is located in the southern extent of Charlie Creek near the confluence of the Peace River. The main riparian land use type in this focal area were agriculture and to a lesser degree natural forest. A total of 33 impairment sites with severity scores ranging from 4.75 to 7.25 was identified in CC1 (Table 6). All sites ranked “Moderate Severity” and the total impairment site length was 9,850 linear feet (Figure 15). Impairments in this focal area were due to active and mass-wasting banks, degraded riparian conditions, NPSP sources (cattle), moderate to very high BEHI scores, limited floodplain access on outside meander bends, and a poor Pfankuch-Channel Stability rating. Nearly every outside meander bend was eroding due to lack of riparian vegetation to stabilize banks. This focal area had some of the highest cattle impacts observed in this study. There were obvious signs of cattle degradation throughout the reach and no fencing to prevent cattle from accessing the riparian corridor. In addition, there were several locations that were used as tractor crossings which were contributing large amounts of sediment. All impairment sites were located on 1 privately-owned property which could potentially make large-scale restoration a possibility if the landowner is supportive. Charlie Creek within CC1 is included on the EPA’s 303d list of impaired waters for fecal coliform, which is consistent with the high amount of cattle waste entering the stream.

At the northern extent of the focal area, we identified an unusual impairment site (PI407). This site was a mitigation project for the road expansion of nearby highway 17. However, in the process of creating a wetland within the riparian corridor, most of the streambank vegetation was removed and the bank became unstable. In addition, at the time of survey there was more than 6

acres of bare soil that could readily wash into the creek during rain or high-water events. Further investigation is required to determine if construction and appropriate stabilization has been completed.

#### Charlie Creek 2 Focal Area (CC2)

CC2 (2.3 river miles) is located in the central region of Charlie Creek at the Sweetwater Road crossing. The main riparian land use types in this focal area were agriculture and natural forest. A total of 17 impairment sites with severity scores ranging from 3.5 to 8.0 were identified in CC2 (Table 6). Out of the 17 impairment sites, 15 ranked “Moderate Severity”, 1 ranked “Low Severity”, and 1 ranked “High Severity” (Figure 16). Total impairment site length for the focal area was 3,530 linear feet, which included 2,940 feet ranked “Moderate Severity”, 230 feet ranked “Low Severity”, and 360 feet ranked “High Severity”. Impairments in this focal area were primarily due to active and mass-wasting banks, poor riparian conditions, NPSP sources (cattle), moderate to very high BEHI scores, limited floodplain access on outside meander bends, and a fair Pfankuch-Channel Stability rating. Charlie Creek within CC2 has been placed on the EPA’s 303d list of impaired waters for fecal coliform, which is consistent with the high amount of cattle waste entering the stream. Very limited and insufficient cattle fencing was observed in this area to prevent cattle from accessing the river corridor and grazing on riparian vegetation that may otherwise stabilize streambanks over time. Additionally, aerial imagery reviews and field surveys revealed that some riparian areas were cleared for farm roads near the river. This has led to destabilizing streambanks and surface erosion. The full impact of private unpaved roads was not captured in the impairment site severity scores, but sometimes these areas impacted riparian buffer widths. All impairment sites were located on 4 privately-owned properties.

### Horse Creek 1 Focal Area (HC1)

HC1 (2.2 river miles) is located in the central region of Horse Creek upstream of Highway 72.

The main riparian land use types in this focal area were agriculture and natural forest. A total of 19 impairment sites with severity scores ranging from 4.0 to 7.5 was identified in HC1 (Table 6). Out of the 19 impairment sites, 16 ranked “Moderate Severity”, 2 ranked “High Severity”, and 1 ranked “Low Severity” (Figure 17). Total impairment site length for the focal area was 2,375 linear feet, which included 1,810 feet ranked “Moderate Severity”, 465 feet ranked “High Severity”, and 100 feet ranked “Low Severity”. Impairments in HC1 were primarily due to active and mass-wasting banks, poor riparian conditions, NPSP sources (cattle), moderate to very high BEHI scores, limited floodplain access on outside meander bends, and a poor Pfankuch-Channel Stability rating. The main cause of instability in this focal area was related to cattle access within the riparian corridor. Riparian buffers were moderately intact which was probably why most of the erosion was documented as active, not mass wasting. Cattle fencing was present in some areas of the reach, however it appeared that landowners may rotate cattle into the riparian area during certain times of the year. Horse Creek within HC1 has been placed on the EPA’s 303d list of impaired waters for biological oxygen demand and dissolved oxygen, which may be related to the high NPSP potential that was documented.

All impairment sites in this focal area were located on 1 privately-owned property, making largescale restoration a possibility if the landowner is willing to participate in restoration efforts. This reach is producing a large amount of sediment, making restoration and bank stabilization a high priority for the long-term health of Horse Creek and the Peace River.

### Prairie Creek 1 Focal Area (PC1)

PC1 (1.9 river miles) is located in the central region of Prairie Creek. The main riparian land use types in this focal area were natural forest and pasture. A total of 21 impairment sites with severity scores ranging from 2.5 to 6 were identified in PC1 (Table 6). Out of the 21 impairment sites, 11 ranked “Low Severity” and 10 ranked “Moderate Severity” (Figure 18). Total impairment site length for the focal area was 4,549 linear feet, which included 2,432 feet ranked “Low Severity” and 2,117 feet ranked “Moderate Severity”. Impairments in PC1 were primarily due to active erosion, impacted riparian conditions, NPSP sources (cattle), moderate to very high BEHI scores, limited floodplain access on outside meander bends, and a fair Pfankuch-Channel Stability rating. PC1 was characterized as a slightly incised stream with a relatively intact riparian corridor. The main causes for channel instability in this focal area were channel incision and cattle grazing (historic and, to a lesser extent, current). Although during surveys cattle grazing was not observed directly, we did document signs of cattle use. This focal area is completely owned by Charlotte County, who recently acquired the property and manages it as part of Prairie Creek Preserve. Prairie Creek within PC1 has been placed on the EPA’s 303d list of impaired waters for total dissolved solids and dissolved oxygen.

In the central region of the focal area, a historic cattle and vehicle crossing was documented that was producing large amounts of sediment. The native-soil road leading to the crossing, on both sides, had very loose sand that could readily erode into the stream (the potential sediment erodible volume was estimated to be 65.2 cubic yards per rain event). We also observed that, due to the high sediment load entering the stream, the crossing was creating back-watering conditions in the lateral scour pool directly upstream. Additionally, downstream of the crossing, the stream was shallow and sediment islands were found. This crossing should be

stabilized with native vegetation and vehicle access should be prohibited to improve stream habitat.

#### Peace River Watershed Tertiary Locations

Tertiary locations for restoration occurred throughout the Peace River Watershed outside of focal areas. Tertiary locations accounted for 226 impairment sites with severity scores ranging from 1.0 to 8.75 (Table 6). Out of the 226 impairment sites, 137 ranked “Low Severity”, 86 ranked “Moderate Severity”, and 3 ranked “High Severity”. Total impairment site length for tertiary locations was 36,419 linear feet, including 21,481 feet ranked “Low Severity”, 14,223 feet ranked “Moderate Severity”, and 716 feet ranked “High Severity”. Most (75.7%) of the impairment sites that were ranked “Low Severity” within the entire Peace River Watershed occurred in tertiary locations.

#### *Unpaved Road Crossing Focal Areas*

Unpaved road crossing sites in the Peace River Watershed were divided into 7 focal areas (Figure 19) including: Charlie Creek, Shell/Prairie Creeks, Peace River at Arcadia, Payne Creek, Coastal Peace River, Peace River at Zolfo Springs, and Horse Creek.

#### Charlie Creek Focal Area

The Charlie Creek Focal Area had the highest number of unpaved road crossing sites assessed ( $n = 22$ ), with SRI scores ranging from 38 to 60 (Table 7). Sixteen sites ranked “Low Risk” and 6 sites ranked “Moderate Risk”. The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. Additionally, 1 of the 22 sites had fish passage barriers due to sediment blocking the culvert.

### Shell/Prairie Creek Focal Area

We assessed 10 unpaved road crossing sites in the Shell/Prairie Creek Focal Area, and SRI scores ranged from 34 to 60. Seven sites ranked “Low Risk”, 2 sites ranked “Moderate Risk”, and 1 site ranked “High Risk” (Table 7). The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. Additionally, 2 of the 10 sites had fish passage barriers caused by culvert outfall drops.

### Peace River at Arcadia Focal Area

The Peace River at Arcadia Focal Area contained 9 unpaved road crossing sites and SRI scores ranged from 36 to 54. Seven sites ranked “Low Risk”, 1 site ranked “Moderate Risk”, and 1 site ranked “High Risk” (Table 7). The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. Additionally, 7 of the 9 sites had fish passage barriers caused by culvert outfall drops and aquatic vegetation blockages.

### Payne Creek Focal Area

We assessed 7 unpaved road crossing sites in the Payne Creek Focal Area, and SRI scores ranging from 35 to 60. Five sites ranked “Low Risk”, 1 site ranked “Moderate Risk”, and 1 site ranked “High Risk” (Table 7). The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. Additionally, 1 of the 7 sites had fish passage barriers caused by culvert outfall drops.

#### Coastal Peace River Focal Area

We assessed 5 unpaved road crossing sites in the Coastal Peace River Focal Area, and SRI scores ranged from 28 to 58. Three sites ranked “Low Risk”, 1 site ranked “Moderate Risk”, and 1 site ranked “High Risk” (Table 7). The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. Additionally, 2 of the 5 sites had fish passage barriers caused by culvert outfall drops. This focal area had the highest-ranking unpaved road crossing site (PU031, SRI 28) and contributed greater than 80 cubic yards of sediment per rain event.

#### Peace River at Zolfo Springs Focal Area

We assessed 5 unpaved road crossing sites in the Peace River at Zolfo Springs Focal Area, and SRI scores ranged from 42 to 53. Two sites ranked “Moderate Risk” and 3 sites ranked “Low Risk” (Table 7). The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, crossing fill condition, and potential for sedimentation from road approaches. Additionally, 2 of the 5 sites had fish passage barriers caused by culvert outfall drops.

#### Horse Creek Focal Area

We assessed 4 unpaved road crossing sites in the Payne Creek Focal Area, and SRI scores ranged from 51 to 58. All 4 sites ranked “Low Risk” (Table 7). The main causes for impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, and potential for sedimentation from road approaches. None of the sites had fish passage barriers.

## **Withlacoochee River Watershed**

### ***Location and Magnitude of Habitat Degradation***

The Withlacoochee River Watershed is primarily an unconfined alluvial valley flowing through unconsolidated quartz sand, silt, and sandy clay, with an underlain layer of limestone (DEP 2001, Figure 20). The LULC was predominately agriculture (26.7%), including pasture and tree crops (primarily citrus, Figure 21). Developed areas and phosphate mining accounted for 24.4% of the LULC. Natural areas consisting of wetlands, natural forest, prairie/scrub and open water accounted for 48.8% of the LULC.

Approximately 131.6 river miles were assessed for impairments on the main stem of the Withlacoochee River and navigable tributaries (Figure 22, Table 8). A total of 24 impairment sites was identified, including 15 ranked “Low Severity”, 7 ranked “Moderate Severity”, and 2 ranked “High Severity” (Figure 23, Table 9). There was a total of 1,934 linear feet of impairment sites, which included 1,229 feet ranked “Low Severity”, 673 feet ranked “Moderate Severity”, and 32 feet ranked “High Severity”. We identified and scored 20 unpaved road crossing sites in the Withlacoochee River Watershed (Figure 23, Table 10). The majority (80.0%) of the SRI scores were “Low Risk”, followed by “Moderate Risk” (15.0%) and “High Risk” (5.0%). Individual impairment site and unpaved road crossing site summaries are included in Appendices C and D, respectively.

### ***Fish Passage Impacts at Road Crossings***

All road crossings and impairment sites in the navigable reaches and public unpaved road crossings in non-navigable areas were assessed for fish passage blockage. Three fish passage barriers were identified in the Withlacoochee River Watershed, including 1 at an unpaved road



crossing site, 1 at the Lake Rousseau Dam, and 1 at the Wysong-Coogler Water Conservation Structure. It is important to note that we identified hundreds of unpaved road crossings that could not be assessed for SRI or fish passage blockages due to their location on private lands.

### ***Restoration Recommendations at Each Impacted Location***

Generally, our river restoration recommendations are to use NCD methodologies instead of hard structures like gabions, concrete lined channels, rip rap, and log cribs. The NCD approach to river restoration focuses on emulating a natural stable river system that is self-regulating and functioning (Rosgen 2011). The primary benefits of NCD include: reduction of accelerated erosion rates, floodplain connectivity, low maintenance costs, improved aquatic habitat, riparian habitat restoration, enhanced water quality, aesthetic value, and lower cost than traditional methods. For more information regarding NCD please review the following articles: Rosgen (2011) and Harman and Starr (2011).

Restoration recommendations for impairment sites were developed into 3 summarized options (Table 5). The recommended option for each site was specified in the notes section of each individual impairment site summary (Appendix C). Restoration option 1 was generally recommended for impairment sites that occurred on the outside meander bend of the river, due to the high near-bank shear stress environment. Conversely, areas of low near-bank shear stress, often located in straight sections of the river or inside meander bends, were recommended to be restored with option 2 or 3.

For unpaved road crossing sites, restoration recommendations aim to reduce common stream impacts such as sedimentation, erosion, channel alteration, fish passage blockages, loss of aquatic habitat, and lack of floodplain connectivity. For a more in-depth review of methods to reduce environmental impacts at unpaved road crossings please see Rainer (2005). Generally,

we recommend paving unpaved road crossings and installing resilient crossing structures that can accommodate large storm events (i.e., 100-year flows). Crossing structures should be able to convey bankfull flows, sediment, and woody debris without altering upstream or downstream channel morphology. Culverts, box culverts, and bridges should be properly positioned and oriented with the natural flow of the stream channel to prevent high skew angles. Culverts should be adequately sized (culvert width 1.2 times bankfull width, multiple culverts may be needed), footed for the maximum scour depth, and positioned (same grade as stream channel) to prevent outfall drops and retain native substrate. When possible, contractors should use open bottom culverts or buried culverts (culvert bed should match stream bed sediments) and additional floodplain relief culverts.

### ***Prioritized Restoration Plan***

Restoration for the Withlacoochee River was prioritized into 3 categories including: impairment site heatmap focal areas, impairment site tertiary locations, and unpaved road crossing site focal areas. Impairment site heatmap focal areas were defined as clusters of impairment sites with moderate to high severity scores. Impairment site tertiary locations were defined as all remaining impairment sites that were not captured within the heatmap focal areas. Unpaved road crossing site focal areas consisted of all accessible, public intersections of unpaved roads and the rivers or tributaries within subwatersheds. Restoration of focal areas, tertiary areas, and unpaved road crossings would provide functional lift to riparian habitats, instream habitats, and water quality.

We identified 2 impairment site heatmap focal areas comprising 32.8 river miles, or 24.9% of the entire surveyed area within the Withlacoochee River Watershed (Figure 24). Focal areas contained 20, or 83.3%, of the impairment sites and 1,617 linear feet, or 83.6%, of the

impaired streambank length identified within the entire watershed (Table 11). Moreover, focal areas contained 77.8% of the total number and 92.2% of the total length of impaired sites that ranked “Moderate Severity” or “High Severity” within the entire watershed. In other words, 92.2% (by length) of the moderately- or highly-impaired streambank occurred within 24.9 % of the surveyed area. Thus, impairment site focal areas are the largest contributors to habitat degradation and therefore are essential to the management and restoration of the Withlacoochee River Watershed. Restoring multiple impairment sites (large-scale restoration) in a river reach is not required for the Withlacoochee River, since impairment sites were not clustered together. However, it would still be recommended to combine sites in a single project, when possible, to reduce cost and time of survey, design, and permitting. Overall, restoration of focal areas would provide functional lift to riparian habitats, instream habitats and water quality.

Focal areas were subjectively numbered and organized based on the degree that the heatmap highlighted impaired areas. Generally, numbering of focal areas followed a highest to lowest degree of impairment and unpaved road crossing per area. However, this should not be misinterpreted to indicate that restoration must follow a particular order. Appropriate restoration will ultimately depend upon agency motivation, landowner participation, and availability of funding – regardless of the order completed. Overall, any restorative actions that provide functional lift to the watershed are encouraged.

#### *Impairment Sites Focal Areas and Tertiary Locations*

##### **Withlacoochee River 1 Focal Area (WR1)**

WR1 (26.8 river miles) is located in the upper Withlacoochee River Watershed between Nobleton and Dade City, FL. It is important to note that the river mile length of WR1 is considerably larger than any other focal area. The primary riparian land use types in this focal

area were natural forest, residential, recreation, transportation, and utilities. Impairment site severity scores ranged from 2.25 to 7.5. A total of 17 impairment sites were located within WR1 and the majority of sites (n = 12) ranked “Low Severity”, followed by “Moderate Severity” (n = 3) and “High Severity” (n = 2, Table 11, Figure 25). There was a total of 1,192 linear feet of impairment sites, which included 942 feet ranked “Low Severity”, 218 feet ranked “Moderate Severity”, and 32 feet ranked “High Severity”. The primary cause of impairment was degraded riparian buffers, NPSP potential, active erosion, moderate to very high BEHI scores, shoring structures, and partial floodplain access on outside meander bends. Overall, the riparian habitat was in very good condition in this focal area. The identified impairment sites were primarily related to recreational use, residential areas, and roads. Additionally, Pfankuch channel stability ratings were ranked good in WR1.

Impairment sites in this focal area were located on 10 different privately-owned properties. Ten sites were located on state of Florida properties (Florida Forest Service, SWFWMD, and Department of Transportation, which should make restoration and/or partnership development a viable option. The possibility of large-scale restoration would not be feasible in this focal area, since all sites were not in close proximity to each other. The Withlacoochee River in WR1 has been placed on the EPA’s 303d list of impaired waters for dissolved oxygen and mercury in fish tissues. The impaired dissolved oxygen levels are likely due to low water velocity conditions and organic enrichment.

#### Withlacoochee River 2 Focal Area (WR2)

WR2 (6.0 river miles) is located in the lower Withlacoochee River Watershed between Lake Rousseau and Yankeetown, FL. The primary riparian land use types in this focal area were natural forest, residential, utilities, and pasture. Impairment site severity scores ranged from 3.5

to 5.0 (Table 11). A total of 3 impairment sites were located within the WR1 focal area, with 2 sites ranked “Moderate Severity” and 1 site ranked “Low Severity” (Figure 26). Two sites were located on the lower Withlacoochee River (LWR), and 1 site was located on the historically-connected section the Withlacoochee River between Inglis dam and the Cross-Florida Barge Canal. There was a total of 425 linear feet of impairment sites, which included 400 feet ranked “Moderate Severity” and 25 feet ranked “Low Severity”. The primary causes of impairments were degraded riparian buffers, NPSP potential, high BEHI scores, and partial floodplain access on outside meander bends.

This particular area of the Withlacoochee River has been severely altered through the construction of the Inglis Dam and Cross-Florida Barge Canal. The Inglis Dam and dredging of the LWR has resulted in a very deep channel with little submersed vegetation due to light attenuation. The stabilization of water levels in the LWR, relatively intact riparian forests, and a mixture of shoring structures have made this area resilient to erosion. However, the function of the LWR ecosystem has been altered through reduction of sediment from the dam and loss of connectivity to the floodplain due to controlled releases of water.

Impairment sites in this focal area were located on 3 different privately-owned properties. The lower Withlacoochee River in WR2 has been placed on the EPA’s 303d list of impaired waters for mercury in fish tissues and benthic macroinvertebrates bioassessments, while the Withlacoochee River between Lake Rousseau and the Cross-Florida barge canal has been listed for dissolved oxygen, chlorophyll-*a* and mercury in fish tissues.

#### Withlacoochee River Watershed Tertiary Locations

Tertiary locations for restoration occurred throughout the Withlacoochee River Watershed outside of focal areas. Tertiary areas accounted for 4 impairment sites with severity scores

ranging from 1.5 to 4.75 (Table 11). Out of the 4 impairment sites, 2 ranked “Low Severity” and 2 ranked “Moderate Severity”. Total impairment site length for tertiary locations was 317 linear feet, with 262 feet ranked “Low Severity” and 55 feet ranked “Moderate Severity”.

#### *Unpaved Road Crossing Focal Areas*

Unpaved road crossings in the Withlacoochee River Watershed were divided into 3 focal areas (Figure 27) including: upper Withlacoochee River, Little Withlacoochee River, and Gum Slough/Jumper Creek.

##### Upper Withlacoochee River Focal Area

We assessed 7 unpaved road crossing sites in the Upper Withlacoochee River Focal Area, and SRI scores ranged from 35 to 58 (Table 12). Six sites ranked “Low Risk” and 1 site ranked “High Risk”. The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. There were no fish passage barriers identified in this focal area.

##### Little Withlacoochee River Focal Area

We assessed 7 unpaved road crossing sites in the Little Withlacoochee River Focal Area, and SRI scores ranged from 42 to 60 (Table 12). Five sites ranked “Low Risk” and 2 sites ranked “Moderate Risk”. The main causes for impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. There were no fish passage barriers identified in this focal area.

### Gum Slough/Jumper Creek Focal Area

We assessed 5 unpaved road crossing sites in the Gum Slough/Jumper Creek Focal Area, and SRI scores ranged from 45 to 60 (Table 12). Four sites ranked “Low Risk” and 1 site ranked “Moderate Risk”. The main causes of impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. Additionally, 1 of the 5 sites had a fish passage barrier caused by a culvert outfall drop.

### ***Fish Assemblage Assessment***

#### *Withlacoochee River - All Segments Combined*

Electrofishing surveys were conducted annually on the Withlacoochee River in the spring season for a three-year period (2016-2018) near baseflows. A total of 16,277 fish comprised of 29 families and 54 species (40 freshwater and 14 marine) was collected during all spring electrofishing surveys (transects  $n = 113$ ). The common name, scientific name, abundance, catch per unit of distance (CPUD-km), weight, and relative composition by number and weight of fish species collected by electrofishing on the Withlacoochee River for all spring sampling events are displayed in Table 13. Total species composition by number was 2.6% marine, compared to 97.4% freshwater species. The eastern mosquito fish (*Gambusia holbrooki*) was the most abundant fish species collected, representing 43.1% of the species composition, with a catch rate of 620.4 fish/km. The second-most abundant fish species was bluegill (*Lepomis macrochirus*) comprising 8.2% of the species composition with a catch rate of 118.3 fish/km. Popular freshwater sport fish species (bluegill, largemouth bass [*Micropterus salmoides*], redbreast sunfish [*Lepomis auratus*], redear sunfish [*Lepomis microlophus*], and spotted sunfish [*Lepomis punctatus*]) made up 25.4% of fishes collected by number. Bowfin (*Amia calva*) was the

dominant species by weight, comprising 35.7% of the total catch weight. The second-most dominant species by weight was the Florida gar (*Lepisosteus platyrhincus*) comprising 19.3% of the total biomass. The striped mullet (*Mugil cephalus*) was the highest composition marine species by number 0.8% and weight at 6.6%. Fish communities in the Withlacoochee River displayed relatively high diversity (2.4) and moderate evenness (0.59, Table 14). Exotic fish species collected included blue tilapia (*Oreochromus aurea*), vermiculated sailfin catfish (*Pterygoplichthys disjunctivus*), and walking catfish (*Clarias batrachus*). Additionally, during non-standardized sampling, we collected the brown hoplo (*Hoplosternum littorale*).

#### *Lower Withlacoochee River*

The lower Withlacoochee River fish sampling area included the river reach between the Inglis Bypass Spillway and the lower extent of housing development in Yankeetown. Additionally, the lower segment included the reach between Inglis Dam and the Barge Canal. The riparian areas of the lower Withlacoochee River were largely utilized by single family homes with docks and seawall embankments, and this area of the river was very deep due to previous dredging projects and lack of natural sediment input. In the lower Withlacoochee River, a total of 1,610 fish comprised of 35 species was collected during all spring electrofishing surveys (transects  $n = 39$ , Table 15). Of the 35 species collected, 14 were categorized as marine or estuarine species. Therefore, freshwater fish species richness was significantly lower than other river segments. The Shannon Index and evenness were 2.6 and 0.73, respectively, and were higher than all other segments when marine species were included in the analysis (Table 14). However, if marine fish species were removed from analysis, the Shannon Index and evenness were 2.0 and 0.63, respectively. CPUD in the lower segment was 412.8 fish/km and was the lowest of all segments. Bluegill was the most abundant fish species collected,



representing 23.1% of the species composition with a catch rate of 95.4 fish/km. Marine fish species only occurred in the lower Withlacoochee River due to the dam at Lake Rousseau which prevented upstream migration. Total species composition by number was 26.3% marine, compared to 73.7% freshwater. The striped mullet (*Mugil cephalus*) comprised the highest marine species composition by number 8.6% and the most dominant of all species by weight at 25.4%. It is important to note that we observed 1 tarpon (*Megalops atlanticus*) that was too large to net and safely bring onboard the electrofishing boat. If this large tarpon had been collected, it had potential to impact fisheries data including total biomass and percent composition by weight. The American eel (*Anguilla rostrate*), a SGCN, was also collected in the lower Withlacoochee River and occurred solely in the lower segment, since a dam prevents upstream movement.

Total instream habitat coverage and instream habitat coverage categories (submersed vegetation, emergent vegetation, floating vegetation, and other) were visually estimated at each fish sampling transect. The total mean instream habitat coverage was 42.0% in all transects of the lower Withlacoochee River, which was the lowest of all 3 segments. The dominant instream habitat coverage category was “other”, which included the following, from most dominant to least dominant order: snags (woody debris, brush, and stumps), concrete (rock and rubble), and mast (man-made structure, fishing piers, and boat docks). The vegetative instream habitat coverage categories (submersed vegetation, emergent vegetation, and floating vegetation) were very low, and consisted of less than 1.0% of the total mean instream habitat coverage. The lack of habitat coverage was a result of greater water depths (due to previous dredging and sediment retention above the dam), light attenuation due to depths and turbidity, and an abbreviated littoral zone.

*Middle Withlacoochee River*

The middle Withlacoochee River sampling area included the river reach between the Wysong-Coogler Water Conservation Structure to the upper extent of Lake Rousseau. In the middle Withlacoochee River, a total of 5,174 fish comprised of 36 species was collected during all spring electrofishing surveys (transects  $n = 37$ , Table 15). The Shannon Index (2.4) and evenness (0.67) were the highest of any segment when only freshwater fish species were included in the analysis (Table 14). CPUD in the middle segment was 1,398.3 fish/km. Eastern mosquito fish was the most abundant fish species collected, representing 33.6% of the species composition, with a catch rate of 470.5 fish/km. Bowfin was the dominant species by weight, comprising 35.0% of the total catch weight. The redeye chub (*Notropis harperi*) was the only SGCN collected in the middle Withlacoochee River.

In the middle Withlacoochee River fish sampling transects, the mean total instream habitat coverage was 55.7%. The mean categorical instream habitat coverages were 20.9% emergent vegetation (water-pennywort [*Hydrocotyle* sp.], spatterdock [*Nuphar luteum*] and giant knotweed [*Polygonum densiflorum*]), 22.7% submersed vegetation (filamentous algae, hydrilla [*Hydrilla verticillata*], southern naiad [*Najas guadalupensis*], and American eelgrass [*Vallisneria americana*]), 22.4% other (snags and manmade structures), and 6.9% floating vegetation (water fern [*Salvinia* sp.] and common duckweed [*Lemna minor*]).

*Upper Withlacoochee River*

The upper Withlacoochee River sampling area included the river reach between Ridge Manor and the Wysong-Coogler Water Conservation Structure. In the upper Withlacoochee River, a total of 9,493 fish comprised of 37 species was collected during all spring electrofishing surveys (transects  $n = 37$ , Table 15). The Shannon Index (1.9) and evenness (0.54) were the

lowest of any segment (Table 14), while the CPUD in the upper segment was the highest of any segment (2,565.7 fish/km). The Shannon Index, evenness, and CPUD were influenced greatly by the abundance of Eastern mosquito fish. The Eastern mosquito fish was the most abundant fish species collected, representing 55.3% of the species composition and a catch rate of 1,417.6 fish/km. Bowfin was the dominant species by weight, comprising 45.4% of the total catch weight. The redeye chub, a SGCN, was also collected in the upper Withlacoochee River. Exotic fish species including the blue tilapia and walking catfish were only collected in the upper river segment.

In the upper Withlacoochee River fish sampling transects, the mean total instream habitat coverage was 54.2%. The mean categorical instream habitat coverages were 30.9% submersed vegetation (coontail [*Ceratophyllum demersum*], hydrilla, and filamentous algae), 19.6% other (snags and manmade structures), 17.3% emergent vegetation (giant knotweed, water-pennywort, and spatterdock), and 2.6% floating vegetation (water fern and common duckweed).

## DISCUSSION

### Peace River Watershed

Approximately 167.7 river miles were assessed for impairments on the main stem of the Peace River and navigable tributaries, and 512 impairment sites were identified. The majority (62.7%) of impairment sites ranked “Moderate Severity” and were primarily impacted due to degraded riparian buffers, obvious NPSP (cattle waste), moderate to very high BEHI scores, active or mass wasting bank erosion, partial floodplain access, and poor to fair Pfankuch-Channel Stability ratings. Streambanks and channel material in the Peace River Watershed were predominantly composed of sand, which is more highly erodible than larger particle sizes. The BEHI estimate accounts for particle size by utilizing a bank material adjustment for sand (adds 10 points), which

increased BEHI scores for most sites. Very few identified impairment sites ranked “High Severity” (2.9%). Typically, “High Severity” sites contained one of the less common risk factors (shoring structures, pipe discharge, or channel alteration) to increase risk category from “Moderate Severity” to “High Severity”. Overall, risk factors including channel alteration, shoring structures, pipe discharge, water odors, and fish passage barriers were very uncommon in the study. It is important to note that we did document numerous private housing areas with shoring structures (seawall and riprap), but these areas were not actively eroding and were not categorized as impairment sites in need of future restoration.

Overall, the results of the Peace River Watershed threats assessment have shown that certain reaches of stream and riparian habitats have been severely degraded, primarily due to ranching, agriculture, and denuding riparian forests. This coincides with the Peace River Watershed’s LULC being predominately agriculture (39.7%). In fact, the majority of sites (62.9%) were located on landowners’ properties associated with agriculture and ranching. Additionally, more than a quarter of impairment sites in the Peace River Watershed occurred on a single private landowner’s property. Interestingly, Pfankuch-channel stability ratings often correlated with landowners and management of their property. This illustrated that impairments were often a result of common feature, including land use or land management. In focal areas PR1, PR2, PR3, and CC1, heavy cattle grazing and agricultural use within the riparian corridor has resulted in active and mass wasting banks on almost every outside meander bend. On the other hand, other river sections, such as the upper Peace River (Bartow south to Zolfo Springs), exhibited a relatively intact riparian forest and few degraded areas. Interestingly, we observed many reaches where pasture lands bordered the river with a narrow band of riparian vegetation remaining (< 25 feet), usually with cattle fencing, and yet the lateral stability of the stream was

not compromised. While this narrow riparian buffer may be insufficient in the filtering of NPSP, this illustrates how valuable even a small band of riparian forest is for river stability and associated instream habitat. For more information regarding riparian condition in the Peace River Watershed, please see our GIS analysis evaluating riparian LULC and statistical prediction of riparian impairment in non-navigable streams and reaches (Appendix E).

While it appears that the channel instability in the Peace River is primarily a result of poor cattle grazing practices, we theorize that Hurricane Charley in 2004 may have exacerbated conditions. Hurricane Charley made landfall near Punta Gorda as a category 4 storm and its path followed the main stem of the Peace River. Review of historical aerial imagery revealed that the hurricane uprooted countless trees in the riparian corridor in Hardee and DeSoto counties. This made matters worse, since cattle grazing had already destabilized this section by changing vegetation composition and density. The uprooting of riparian trees accelerated streambank erosion by causing erosive cross currents that increase shear stress, bank cutting, bank sloughing, and bank failure. Additionally, cattle grazing hindered the colonization of new vegetation.

Aggradation was the prevailing stream geomorphological impact identified in the Peace River, Charlie Creek, and Horse Creek. Aggradation is the raising of the streambed elevation due to sediment deposition over time and occurs when the sediment load is higher than the sediment transport capacity of the stream (Rosgen et al. 2009). Aggradation has a negative feedback loop, where an increase in sediment load reduces bed slope, which in turn, increases streambank erosion and sediment load. Additionally, high streambank erosion and decreases in bed slope lead to channel over-widening or a high width-to-depth ratio, which was documented in numerous stream reaches. As noted in our results section, we documented several avulsions which often are caused by channel aggradation. Furthermore, we observed numerous other signs

of excess sediment deposition including enlarged point bars, mid-channel bars, diagonal bars, and delta bars at tributary confluences. The ecological impact of aggradation and over-widened streams are increased water temperatures, loss of habitat complexity (loss of deep pools utilized by larger fish species), and loss of biological function (Rosgen et al. 2009).

In the Peace River Watershed, the majority (72.6%) of SRI scores for unpaved road crossings were “Low”, followed by “Moderate” (21.0%), and “High” (6.5%). The main causes for impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. We identified hundreds of possible unpaved road crossings through aerial imagery, but we only assessed 62 sites because the others were on private lands. Generally, most unpaved road crossing sites presented a high SRI score, which equates to a “Low Risk” category. However, the cumulative sediment impact of assessed and unassessed unpaved road crossings in the Peace River Watershed are contributing to immense sedimentation and degradation of smaller tributaries, which then flow into the larger tributaries and eventually to the Peace River. On the other hand, based on our findings, public unpaved road crossings are much less pervasive than in the Yellow River Watershed threats assessment, which identified 339 sites (Herrington et al 2011). Additionally, the Peace River Watershed is almost twice the size of the Yellow River Watershed, thus public unpaved road crossings are quite infrequent in comparison.

As mentioned above, 18 fish passage barriers were located in the Peace River Watershed at unpaved road crossings sites ( $n = 15$ ), 1 paved road crossing site, 1 dam (Shell Creek Dam), and 1 water control structure (Lake Handcock outfall). Additionally, numerous shallow, over-widened sections (especially in the Peace River) may deter aquatic species passage at periods of low flow. Fish passage barriers may be impacting aquatic SGCN and other species from

accessing and utilizing parts of the Peace River Watershed. Further investigation is required to understand the impacts of fish barriers in the watershed. Currently, the Southeast Aquatic Resource Partnership (SARP) and partners have been creating an aquatic connectivity inventory of all possible aquatic barriers (dams, culverts, and road crossings) in the southeast, which will certainly shed light on the subject.

### **Withlacoochee River Watershed**

Approximately 131.6 river miles were assessed for impairments in the navigable reaches of the Withlacoochee River Watershed, and 24 impairment sites were identified. The majority (62.5%) of impairment sites ranked “Low Severity” and were primarily impacted due to degraded riparian buffers, NPSP potential, moderate to very high BEHI scores, active bank erosion, and partial floodplain access. Similar to the Peace River Watershed, the streambanks and channel material in the Withlacoochee River Watershed were predominantly composed of sand, which is more highly erodible than larger particle sizes. The streambanks of some reaches of the Withlacoochee River Watershed were composed of limestone outcropping, which is very stable. Likewise, many streambanks were lined with bald cypress which are among one of the best streambank-stabilizing trees in Florida. Similar to the Peace River Watershed, risk factors including channel alteration, pipe discharge, shoring structures, water odors, and fish passage barriers were uncommon. However, it is important to note that we documented numerous private housing areas with shoring structures (seawall and riprap). However, these areas were not actively eroding, so they were not categorized as impairment sites that would require restoration.

Overall, the assessed areas of the Withlacoochee River Watershed were very stable and riparian buffers were in excellent condition. We identified less than 2,000 linear feet of

impairment sites in the Withlacoochee River Watershed. Of the 24 impairment sites that we identified, most were related to recreational activities and were relatively small in area. This included land disturbing activities such as rope swings, vehicle and all-terrain-vehicle access, fishing access points, and unpaved boat launches. Only 2 of the impairment sites we identified were a result of agricultural impacts. Although GIS analysis determined that agriculture was the dominant (26.7%) LULC category, very little agriculture occurred within the riparian corridor of the navigable reaches of the Withlacoochee River Watershed that were surveyed. Another reason we found few impairment sites in the Withlacoochee River may be related to it being dammed in 1909. As a result, water levels were stabilized, which decreases stream power and shear stress, which in turn decreases streambank erosion. While finding few impairment sites is a good thing, in reality, the Withlacoochee River does not function like a natural free-flowing river. Similar to many other impounded rivers in our nation, the natural flow regime of the Withlacoochee River Watershed has been altered. It is common for impounded rivers to be overwidened far above dams due to backwatering and increased sedimentation due to settling, while being deeper and narrower below dams since they are sediment starved (commonly called “clear water discharge” since water typically contains very low suspended sediments or bed load). Clear water discharge can also have severe biological impacts on the downstream habitats and estuarine environment by altering productivity and geomorphology (Turek et al. 1987). These general impacts were consistent with observation made in the Withlacoochee River, with many areas upstream of the dam having a low baseflow to bankfull ratio (resulting from aggradation due to low stream power), as well as fine silts and detritus settled over a sandy substrate. Downstream of the dam, the channel was very deep (historically dredged) and had a limited littoral zone, indicating that sediment supply has been trapped in the reservoir for many years.



Initially we were surprised by how few impairment sites were identified by the Withlacoochee River Watershed threats assessment, since Florida's SWAP listed it as a high priority basin for habitat enhancement. Upon closer examination, we determined the SWAP GIS habitat enhancement ranking system was based on the potential for urban development by 2060, threats to freshwater habitats, and habitat-use data for freshwater obligate SGCN. Therefore, since the threats assessment survey primarily investigated river stability, pollution potential, and degradation within the riparian corridor, it was not comparable to the GIS study conducted for the SWAP. Additionally, the threats assessment study focused on only the navigable portions of the watershed, while the SWAP GIS analysis evaluated the entire watershed. For more information regarding riparian condition in the Withlacoochee River Watershed, please see our GIS analysis evaluating riparian LULC and statistical prediction of riparian impairment in non-navigable streams and reaches (Appendix E).

In the Withlacoochee River Watershed, the majority (80.0%) of SRI scores for unpaved road crossings were "Low", followed by "Moderate" (15.0%) and "High" (5.0%). The main causes for impairment were upstream and downstream channel alteration, inlet and outlet sedimentation, high skew angles, crossing fill condition, and potential for sedimentation from road approaches. Although we identified hundreds of unpaved road crossings through aerial imagery, only 20 sites were assessed because most sites were on private lands. Generally, most unpaved road crossing sites presented a low SRI score or threat index. However, the cumulative sediment impact of assessed and unassessed unpaved road crossings in the Withlacoochee River Watershed are contributing to sedimentation, which may be degrading smaller tributaries which then flow into the larger tributaries and eventually to the Withlacoochee River. On the other hand, based on our findings, public unpaved road crossings are much less pervasive than in the

Yellow River Watershed threats assessment, which identified 339 sites (Herrington et al 2011). Additionally, with the Withlacoochee River Watershed being almost twice the size of the Yellow River Watershed, public unpaved road crossings are quite infrequent in comparison.

As mentioned above, 3 fish passage barriers were located in the Withlacoochee River Watershed: 1 unpaved road crossings site, 1 dam (Lake Rousseau/Inglis Dam) and 1 water control structure (Wysong-Coogler Water Conservation Structure). Additionally, numerous shallow, over-widened sections may deter aquatic species passage at periods of low flow. Fish passage barriers may be impacting SGCN from accessing and utilizing parts of the Withlacoochee River Watershed. Further investigation is required to understand the impacts of fish barriers in the watershed. Currently, SARP and partners have been creating an aquatic connectivity inventory of all possible aquatic barriers (dams, culverts, and road crossings) in the southeast, which will certainly shed light on the subject.

### ***Fish Assemblage Assessment***

Our fish assemblage assessment represents the first multi-year, comprehensive and standardized survey on the entire navigable portion of the Withlacoochee River main stem. Prior fish surveys either did not follow a standardized CPUD methodology (FWC unpublished data) or focused efforts on localized areas like Lake Rousseau or haphazard locations. Recently, FWC has conducted multi-year fish surveys following standardized methodologies on 2 spring run tributaries of the Withlacoochee River including Rainbow River (Johnson et al. 2019) and Gum Slough (Nagid et al. 2012). The combined data of these surveys provide researchers with the ability to analyze future impacts in the watershed associated with population growth and land use changes.

The Withlacoochee River has had significant anthropogenic impacts from the construction of the Cross-Florida Barge Canal, damming of the river, and the conversion of lands to agriculture and urban areas. Despite these alterations, the species richness found in our study was high relative to the natural zoogeography of the watershed. Review of historical fish community presence/absence data of the Withlacoochee River (Table 16) did not indicate a decline in species richness due to recent degradation (past 30 years). Unfortunately, due to a lack of comparable baseline fisheries data, we were not able to infer changes to CPUD, diversity, biomass, or fish community composition due to anthropogenic impacts. However, our study documented a total of 56 fish species which is higher than previous fisheries surveys and there were only 8 fish species previously documented that we did not detect during our sampling efforts.

The Withlacoochee River Watershed historically contained 3 fish species currently listed as SGCN, including the American eel, the black banded sunfish (*Enneacanthus chaetodon*), and the redeye chub. The American eel and redeye chub were documented in our surveys. The American eel was only found below the dam in the lower Withlacoochee River, due to this fish passage barrier. Interestingly, Johnson et al. (2019) documented the American eel in Rainbow River, upstream of the dam, which indicates that they must be finding their way through the barrier. On the other hand, the redeye chub was only found above the dam. The redeye chub is a zooplanktivorous species that typically inhabits springs, spring runs, and streams and rivers receiving spring flows (Robins et al. 2018). The lack of occurrence indicates that the lower Withlacoochee River may not be able to support this specialist species. The blackbanded sunfish was not collected in our surveys, probably because this species typically inhabits areas that were

not captured in our sampling design, including swamps, vegetated lakes and ponds, and backwater creeks of rivers (Robins et al. 2018).

Non-native fish species collected during surveys included the blue tilapia, brown hoplo (collected during non-standard sampling), vermiculated sailfin catfish, and walking catfish. All 4 of these non-native species are established in Florida and these collections represent a relatively recent expansion in the northwest edge of each of their ranges (USGS 2019). In fact, our collection of these non-native species was the first documentation of their occurrence in the main stem of the Withlacoochee River (USGS 2019). In the Withlacoochee River Watershed, the first records of blue tilapia were in 1977, brown hoplo first appeared in 2009, vermiculated sailfin catfish were first recorded in 1999 and in the Rainbow River in 2007, and the walking catfish was limited to one record in Gum Slough during 2013 (USGS 2019). These non-native species comprised a very small component of the fish communities, with less than 10 individuals collected total. However, they may pose a severe risk to native fish communities if they expand in the basin. It is important to note that our survey methodology may have underestimated non-native fish abundance due to their preference of backwater habitat, which was not sampled, and low catchability with electrofishing gear. Additionally, species such as the blue tilapia may be more abundant in Lake Rousseau (not sampled) due to their preference for dense vegetation, high turbidity, and eutrophic waters.

The Withlacoochee River has historically been subject to fish kills primarily related to hypoxia. The majority of the Withlacoochee River and tributaries attain state water quality standards, however there are some reaches listed as “Impaired” due to nutrients (chlorophyll-*a* and algal mats), mercury in fish tissues, and dissolved oxygen. It is important to note that the middle segment of the river experienced fish kills in 2017, which occurred between the project’s

second and third spring sampling events. This particular event was a result of Hurricane Irma, which flushed vast amounts of decaying organic matter from the surrounding watershed, including Green Swamp, into the main stem of the river. Subsequent decomposition consumed oxygen more rapidly than it could be replaced, resulting in hypoxia. No fish kills were reported below the dam, which we attributed to re-aeration of the water as it passed through the turbulent spillway. We documented the lowest CPUD and total biomass of the study during the fall 2017 survey, which was probably related to the fish kills and high water levels at the time of sampling.

The lower Withlacoochee River had the lowest CPUD, biomass, and freshwater fish species richness of all river segments. Additionally, the lower segment contained very few insectivorous and planktivorous species, while omnivorous and piscivorous species were common. As stated earlier, differences in fish communities in the lower Withlacoochee River may be attributed to the lack of suitable habitat, which is related to greater water depths (due to previous dredging and sediment retention above the dam), altered sediment size, light attenuation due to depths and turbidity, and an abbreviated littoral zone. Additionally, fish diversity tends to decrease as rivers become more tidally influenced. Also, the greater depths of this segment reduced fish catchability, since electrofishing gear is generally only effective to a depth of approximately 6-8 feet. We collected 14 fish species categorized as marine within the lower Withlacoochee River. One marine species of importance is the common snook, which had not been collected prior in the lower Withlacoochee River. The common snook is a tropical and subtropical, estuarine-dependent, euryhaline species (Taylor et al. 2000). The distribution of the common snook is restricted by temperature and the Withlacoochee River is near the northern extent of their range. However, with warming ocean temperatures, the common snook has displayed northern range expansion. The common snook is a popular game species and therefore

represents a new fishing opportunity. Also, the common snook is a new competitor with other piscivorous species including largemouth bass, Florida gar, longnose gar and bowfin in this region. Therefore, fish communities in the lower Withlacoochee River may experience changes as this “new resident” becomes better established. However, the common snook is also susceptible to extensive mortalities during severe cold winter events, which could substantially decrease their abundance in the river.

## CONCLUSIONS

### Peace River Watershed

In the Peace River Watershed, 512 impairment sites and 62 unpaved road crossing sites were identified. This is an alarming figure, especially considering that the threats assessment was limited to navigable reaches of rivers and streams and publicly accessible unpaved road crossing sites. The net impact of the identified and unidentified impairment and unpaved road crossing sites has severely impacted the geomorphology, aquatic habitat, and water quality of the Peace River Watershed. Overall, we recommend concentrating restoration efforts in the 10 impairment site focal areas and 7 unpaved road crossing site focal areas we established in the Peace River Watershed. Additionally, we recommend that multiple impairment or unpaved road crossing sites be restored under the same project to minimize cost of survey, design, and construction. However, we recognize that funding for large-scale restoration or multiple sites at the same time may not be feasible due to funding constraints, and we encourage any restoration projects that provide functional lift. If large scale restoration is not possible, entities should focus on high-ranking sites (severity scores and SRI), which are larger contributors to habitat degradation. Additionally, entities should consider impact on priority resources and habitat. Foreseeable restoration constraints include (1) lack of knowledge of proper stream restoration techniques; (2)

impairment sites are mostly located on private landowners' property and funding agencies typically prefer restoring public properties to ensure long term maintenance; (3) most focal areas occur on several private landowner properties, so permission must be granted from all parties; (4) stream restoration is expensive and can cost approximately \$300.00 to \$500.00 per linear foot; and (5) difficulty accessing remote restoration site locations with heavy machinery. Survey, design, and restoration of the 512 impairment sites in the Peace River Watershed would cost an estimated \$65 million.

Based on the findings of the threats assessment project, we sought and secured funding from FWC's FWLI SWG and the Aquatic Habitat Restoration and Enhancement sub-section (AHRES) for a pilot restoration project of 2 impairment sites on the Peace River beginning 2019. Both restoration sites consisted of severely degraded streambanks with limited floodplain access. The 2 restoration sites are located near Zolfo Springs (PI135) and Arcadia (PI059). Estimated erosion rates were 117.2 and 197.4 tons/year for site PI135 and PI059, respectively. Additionally, the project will have a monitoring component that will assess fish communities, erosion rates, and utilize photo points at each restoration site and control sites (impairment and reference site in close proximity). The project will restore and stabilize the streambanks using NCD by installing toe wood structures, as utilized by USFWS and FWC on the Chipola River and St. Mary's River. We hope that this project will spur future restoration in the Peace River Watershed, as well as demonstrate the use of natural stream restoration methods in Southwest Florida.

### **Withlacoochee River Watershed**

In the Withlacoochee River Watershed, 24 impairment sites and 20 unpaved road crossing sites were identified. The majority of sites ranked low in severity and SRI. Generally, this is largely

due to the Withlacoochee River and tributaries having an intact riparian plant community and little agriculture within the river's riparian habitat. This indicates that within the navigable portion of the watershed, managers should focus efforts into preservation of riparian habitats, in addition to restoration. The net impact of the identified and unidentified impairment and unpaved road crossing sites has impacted the geomorphology, aquatic habitats, and water quality of the Withlacoochee River Watershed. Overall, we recommend concentrating restoration efforts in the impairment site focal areas and unpaved road crossing site focal areas we established in the Withlacoochee River Watershed. Additionally, we recommend that multiple impairment or unpaved road crossing sites be restored under the same project to reduce cost of survey, design, and construction. However, we recognize that funding for multiple sites at the same time may not be feasible due to funding constraints and encourage any restoration projects that provide functional lift. If restoring multiple sites at the same time is not possible, entities should focus on high-ranking sites (severity scores and SRI), which are larger contributors to habitat degradation. Additionally, entities should consider impact on priority resources and habitat. Foreseeable restoration constraints include (1) lack of knowledge of proper stream restoration techniques; (2) most focal areas occur on several landowner properties, so permission must be granted from all parties; (3) stream restoration is expensive and can cost approximately \$300.00 to \$500.00 per linear foot, and (4) difficulty accessing restoration locations with heavy machinery. A rough estimate for survey, design, and restoration of the 24 impairment sites in the Withlacoochee River Watershed is \$1.1 million.

As with any index or scoring system, one can find biases and limitations. One limitation of the impairment site ranking system we observed was the ranking of fish passage barriers. For instance, the dam at Lake Rousseau has impacted and altered miles of riverine habitat and, thus,



should be ranked high for restoration, removal, and decommission. The Inglis Dam is the single largest threat to the river system and has altered water quality, aquatic and terrestrial wildlife communities, and riverine habitat. Since the 1970's, over 1,400 dams have been removed in the United States in order to restore natural river function (Bellmore et al. 2019). The benefits of dam removal include: (1) restore natural river flows and ecosystem function; (2) restore passage for freshwater obligate SGCN and federally threatened East Indian Manatee; (3) long-term cost reduction through lack of future dam maintenance, repeated repairs, liability, and inspections (once completed, the river maintains itself, one time cost); and (4) many dams are at the end of their sediment design lifespan of either 50 or 100 years, in which afterwards they become a safety issue or costly sediment removal is required. The challenges of dam removal include social issues and acceptance, and upfront cost of survey, design, removal, and feasibility study (if required).

The findings of the threats assessment project have already generated possible restoration projects in the upper Withlacoochee River by AHRES biologists. These sites are located on the Florida Forest Service lands and consist of a degraded streambank with limited floodplain access that resulted from illegal recreational access, an unpaved road leading to a boat launch, and an area with limited fish and recreational user passage at low flows (Withlacoochee River at Silver Lake). These projects are contingent upon funding; nevertheless, it is encouraging that entities are already considering restoration projects before the completion of the threats assessment project.

### ***Fish Assemblage Assessment***

Anthropogenic impacts within the Withlacoochee River basin have severely altered the natural flow regime and fluvial geomorphology of the main stem river. As discussed in the

Withlacoochee River Watershed section above, the impoundment of the river system has led to large scale changes, both upstream and downstream of the dam structure. This includes, but is not limited to, the river becoming over-widened above the dam due to backwatering and increased sediment settling, increased nutrients and associated dense aquatic vegetation in the reservoir, a deeper and narrower channel below the dam due to a lack of sediment supply, and a loss of floodplain connectivity due to stabilized flows especially below the dam. These fluvial geomorphological changes in the Withlacoochee River have had large scale ecological impacts related to: loss of riverine habitat, changes in sediment sizes which may impact fish spawning, and an increase in lentic-associated fish and macroinvertebrate species. These impacts over time often translate to decreases in species richness, diversity, and CPUD, though these trends were difficult to ascertain in our study due to a lack of comparable baseline data. Based on our results, the lower Withlacoochee River displayed higher fish community impacts than other segments, due to anthropogenic influences.

As stated earlier, our sampling efforts represent the first comprehensive fish surveys following FWC's LTM standardized protocol on the navigable portion of the Withlacoochee River. In that regard, we recommend that the navigable portion of the Withlacoochee River be included in a regular fisheries sampling regime, following LTM protocol, to provide better long-term data, which can be used to monitor changes in communities and help make informed management decisions. Due to a lack of previous standardized fisheries data, we were only able to make comparisons of presence/absence data with historical data. Despite the vast changes in Withlacoochee River's riverine habitat, the main stem of the river contained fish diversity appropriate for the natural zoogeography of the watershed and similar species accounts from the late 1980's. One major change to the fish community was the addition of 4 exotic fish species

that were not previously documented in the mainstem river. Unfortunately, these species are now characteristic of most waterbodies in peninsular Florida. With an increasing population and a greater demand for water in the Withlacoochee River Watershed, this 3-year survey provides baseline fisheries data to evaluate future studies. Lastly, if city, state, and federal governments and local citizens were to pursue a dam removal project on the Withlacoochee River, this study would also provide baseline data to evaluate changes following dam removal.

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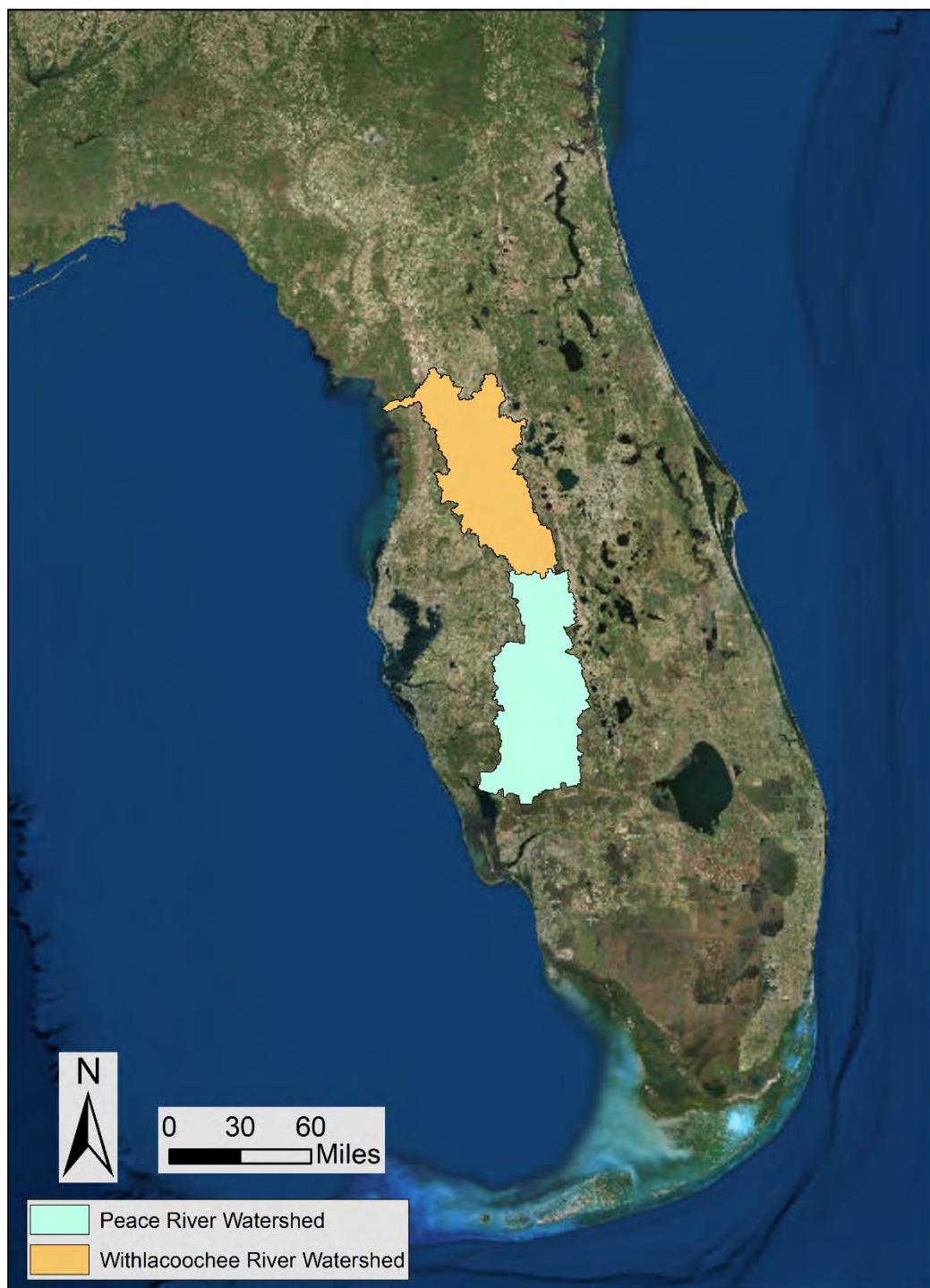



Figure 1. Map displaying the location of the Peace and Withlacoochee Watersheds in the state of Florida.



Table 1. Risk factors and scoring criteria used for evaluating impairment sites (USFWS 2014).  
BEHI = bank erosion hazard index.

Risk Factor	0	0.5	1	1.5	Max Possible Score
Pfankuch channel stability index	Good		Fair	Poor	1.5
Channel alteration	None	Historic, Mostly Recovered	In Recovery	Recent, No Recovery	1.5
Bank erosion	Not Eroding	Historic	Active	Mass-wasting	1.5
BEHI	Low-Very Low	Moderate	High	Very High-Extreme	1.5
Local non-point source pollution	No Evidence	Slight	Moderate Potential	Obvious Sources	1.5
Shoring structures	Not Present			Present	1.5
Pipe discharge	Not Present			Present	1.5
Water odors	Not Present			Present	1.5
Fish passage barrier	Not Present			Present	1.5
Riparian buffer width	0	0.25	0.5	0.75	
Right bank	100ft	50-99ft	30-49ft	0-29ft	0.75
Left bank	100ft	50-99ft	30-49ft	0-29ft	0.75
Floodplain access	0.0	0.25		0.75	
Right bank	Full	Partial		None	0.75
Left bank	Full	Partial		None	0.75
<b>Severity Scale</b>					
Maximum 16.5					0.0 Minimum

CROSSING ID: \_\_\_\_\_

<b>BASELINE</b>	Date:	County:
Road:	Longitude:	Latitude:
Watershed:	Subbasin:	
Crew:		

<b>PHOTOPOINTS</b>	Camera:	Camera Settings:		
Photopoint	Latitude	Longitude	Camera Height	Camera Frame No.
Upstream channel from crossing				
Downstream channel from crossing				
Right road approach from crossing				
Left road approach from crossing				
Crossing structure from: U/S D/S				
Right road approach from hilltop				
Left road approach from hilltop				

<b>WATERWAY</b>	Stream Name:			
	5	3	1	Score
Upstream Channel Morphology:	A B C E Wetland	DA Beaver Dam	D F G Pondered	
Downstream Channel Morphology:	A B C E Wetland	DA Beaver Dam	D F G Pondered	
Downstream Channel/Bank Alteration:	Natural	Minor or Partial	High	
Comments:	<b>TOTAL:</b>			

<b>CROSSING STRUCTURE</b>	Crossing Type: Culvert Bridge Ford				Number of Culverts:	
Culvert Type:	Round	Pipe Elliptical	Open Arch	Box	Trough Box	Open Box Other:
Structure Materials:	(Corrugated) Metal	Polyvinyl Chloride	Synthetic	Reinforced Concrete		
	Wood	Native Soil	Clay	Rock	Other:	
Dimensions:	Length/Span:	Diameter/Width:	Culvert Outfall Drop:			
	5	3	1	Score		
Upstream Culvert Skew Angle (Worst):	< 5°	5° to 30°	> 30°			
Crossing Fill Condition (Dominant):	Good	Vegetated	Fair	Riprap	Poor	Bare Soil
Crossing Inlet/Outlet Condition:	No Impairment	Sediment Islands Scouring	Blocked			

Figure 2. Data sheet and scoring system used to assess unpaved road crossings (Witmer 2009).

CROSSING ID: \_\_\_\_\_

ROAD APPROACHES I		Right = Right Road Approach When Facing Downstream			
Dimensions (Right):	Length: _____ mi.	Width: _____ ft.	Road Prism Fill: _____ in.	Slope: _____ %	
Potential Eroded Volume (Right):		Length × Width × Road Prism Fill × 16.3 = _____			c.y.
Dimensions (Left):	Length: _____ mi.	Width: _____ ft.	Road Prism Fill: _____ in.	Slope: _____ %	
Potential Eroded Volume (Left):		Length × Width × Road Prism Fill × 16.3 = _____			c.y.
		5	3	1	Score
Potential Eroded Volume (Mean):		< 21 c.y.	21 to 40 c.y.	> 40 c.y.	
Soil Type:	Soil K-Factor:	≤ 0.20	0.21 to 0.40	> 0.40	
Road Approach Slope (Mean): _____ %		≤ 2.0%	2.1% to 4.0%	> 4.0%	
Road Approach Surface Material:		ALL Aggregate OR 1 AP: Aggregate 1 AP: Sand/Clay	ALL Sand/Clay OR 1 AP: Aggregate 1 AP: Native Soil	ALL Native Soil OR 1 AP: Native Soil 1 AP: Sand/Clay	
Comments:					TOTAL:

ROAD APPROACHES II										
U/S	Left Outlet (Pick One):	Vegetated	Riprap	Synthetic	+1	Left Ditch (Pick One):	Vegetated	Riprap	Synthetic	+1
		Bare Soil	Concrete	Other	+0		Bare Soil	Concrete	Other	+0
D/S	Right Outlet (Pick One):	Vegetated	Riprap	Synthetic	+1	Right Ditch (Pick One):	Vegetated	Riprap	Synthetic	+1
		Bare Soil	Concrete	Other	+0		Bare Soil	Concrete	Other	+0
D/S	Left Outlet (Pick One):	Vegetated	Riprap	Synthetic	+1	Left Ditch (Pick One):	Vegetated	Riprap	Synthetic	+1
		Bare Soil	Concrete	Other	+0		Bare Soil	Concrete	Other	+0
D/S	Right Outlet (Pick One):	Vegetated	Riprap	Synthetic	+1	Right Ditch (Pick One):	Vegetated	Riprap	Synthetic	+1
		Bare Soil	Concrete	Other	+0		Bare Soil	Concrete	Other	+0
SUM: _____					SUM: _____					
Improved Outlet System:		IF SUM = 4, 2, or 0: +1			Improved Drainage System:		IF SUM = 4, 2, or 0: +1			
		IF SUM = 1: +2					IF SUM = 1: +2			
		IF SUM = 3: +0					IF SUM = 3: +0			
TOTAL:					TOTAL:					

<b>SEDIMENTATION RISK INDEX (SRI)</b> SRI scores range from 12 to 60. Low scores indicate a high risk for sedimentation from unpaved roads into streams or waterbodies.	<b>TOTAL SRI SCORE:</b>
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Figure 2. Continued.

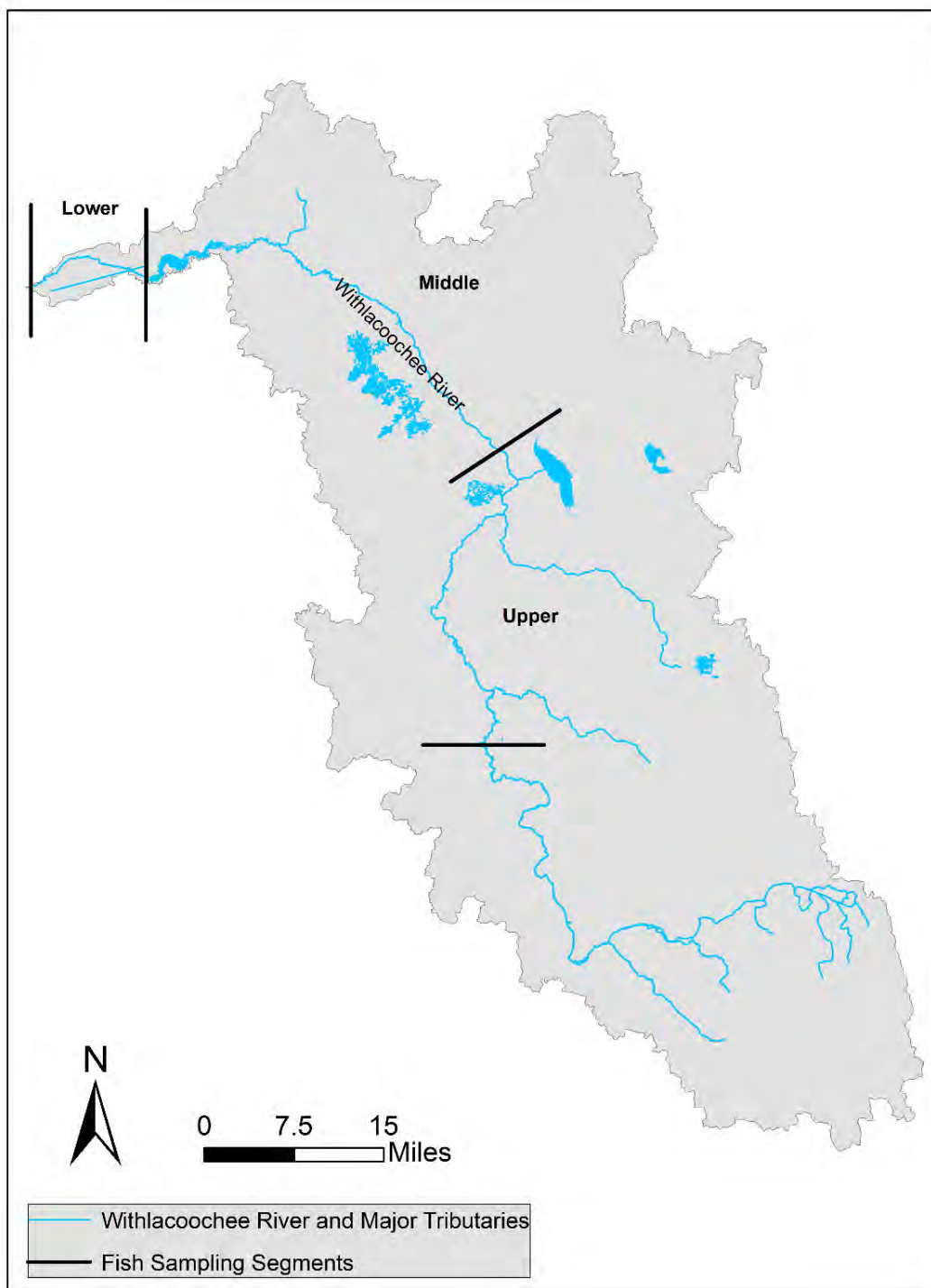


Figure 3. Fish sampling segments (lower, middle, and upper) within the Withlacoochee River.

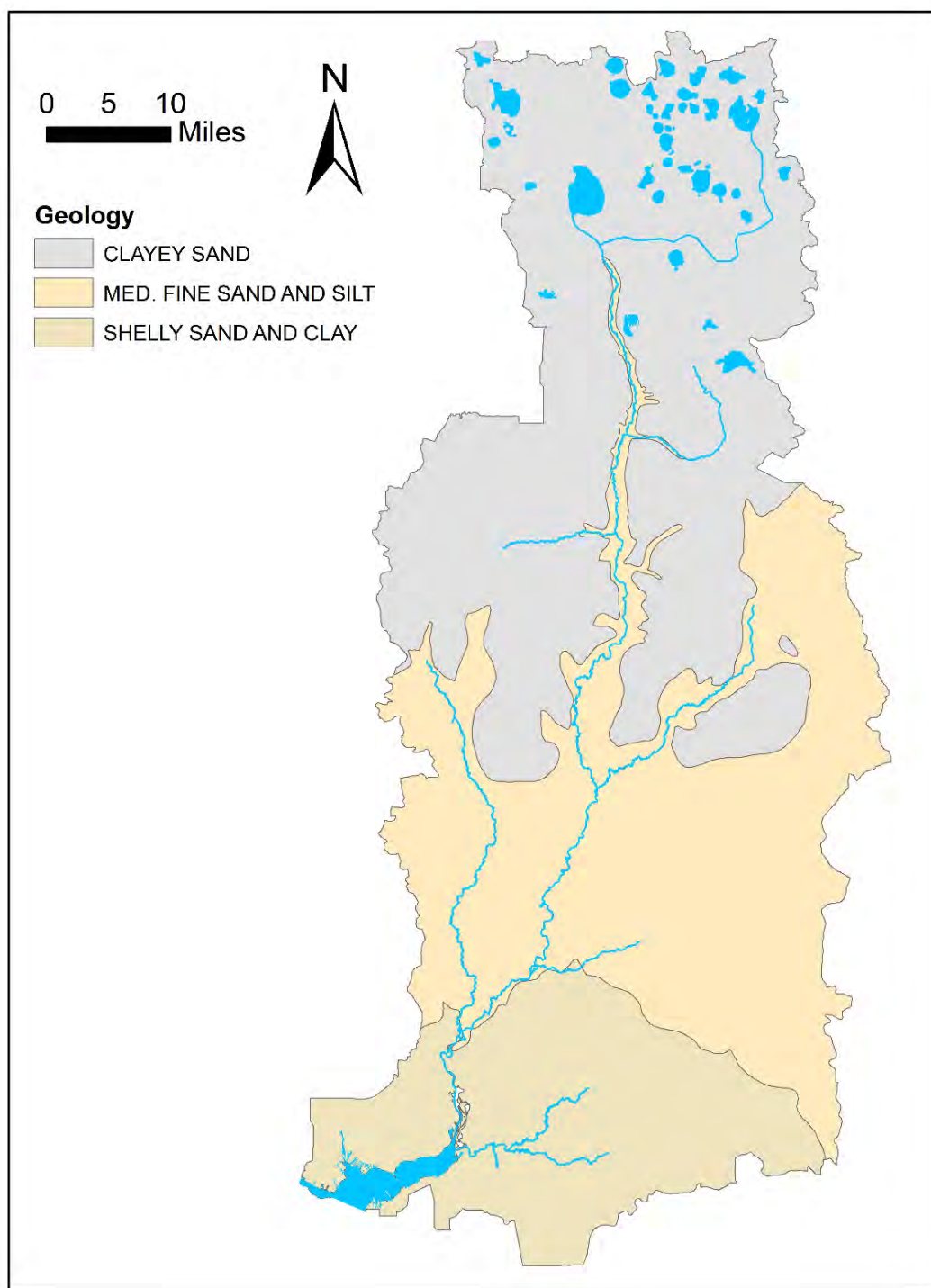


Figure 4. Geology of the Peace River Watershed.



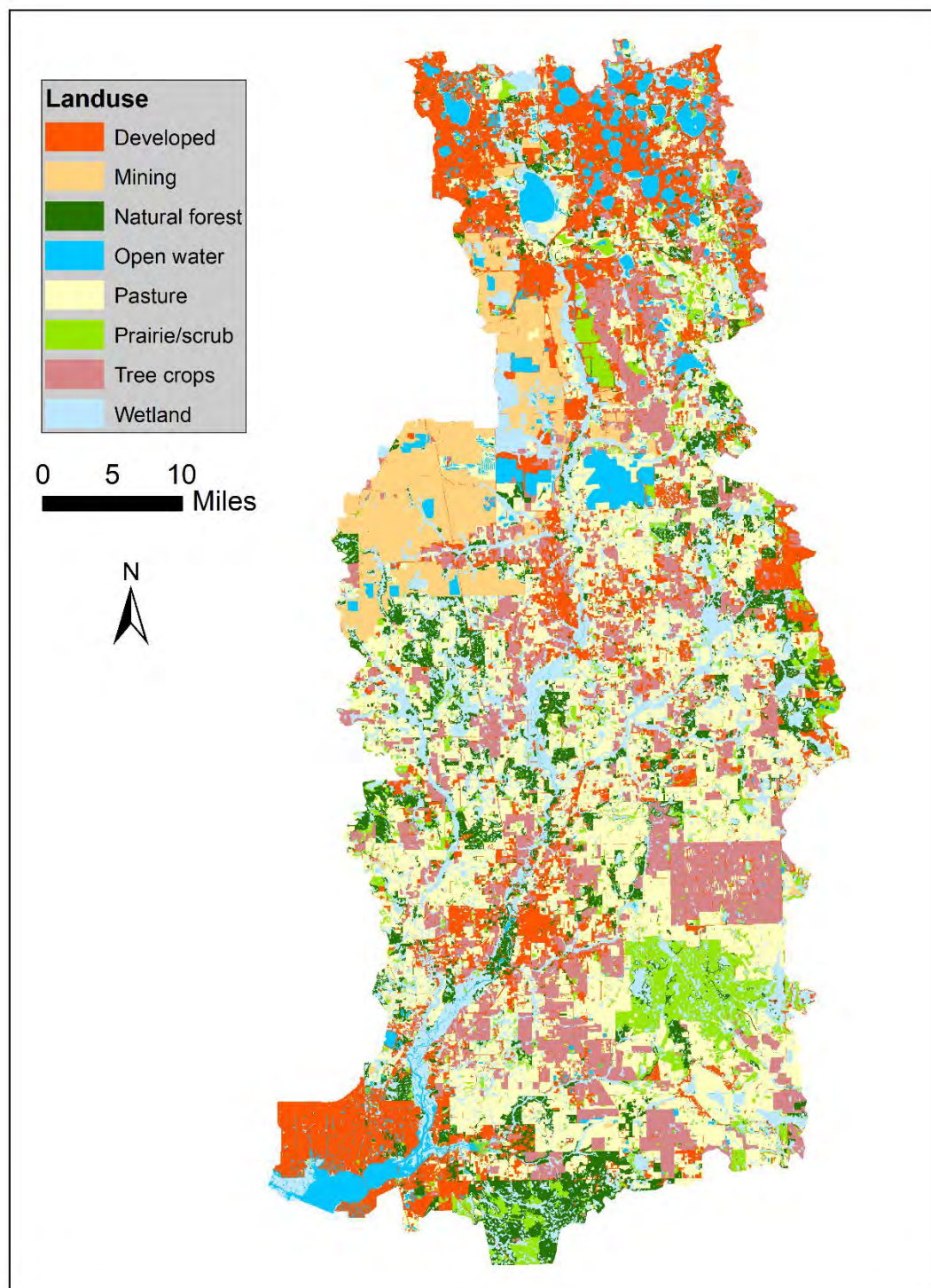


Figure 5. Land use land cover of the Peace River Watershed.

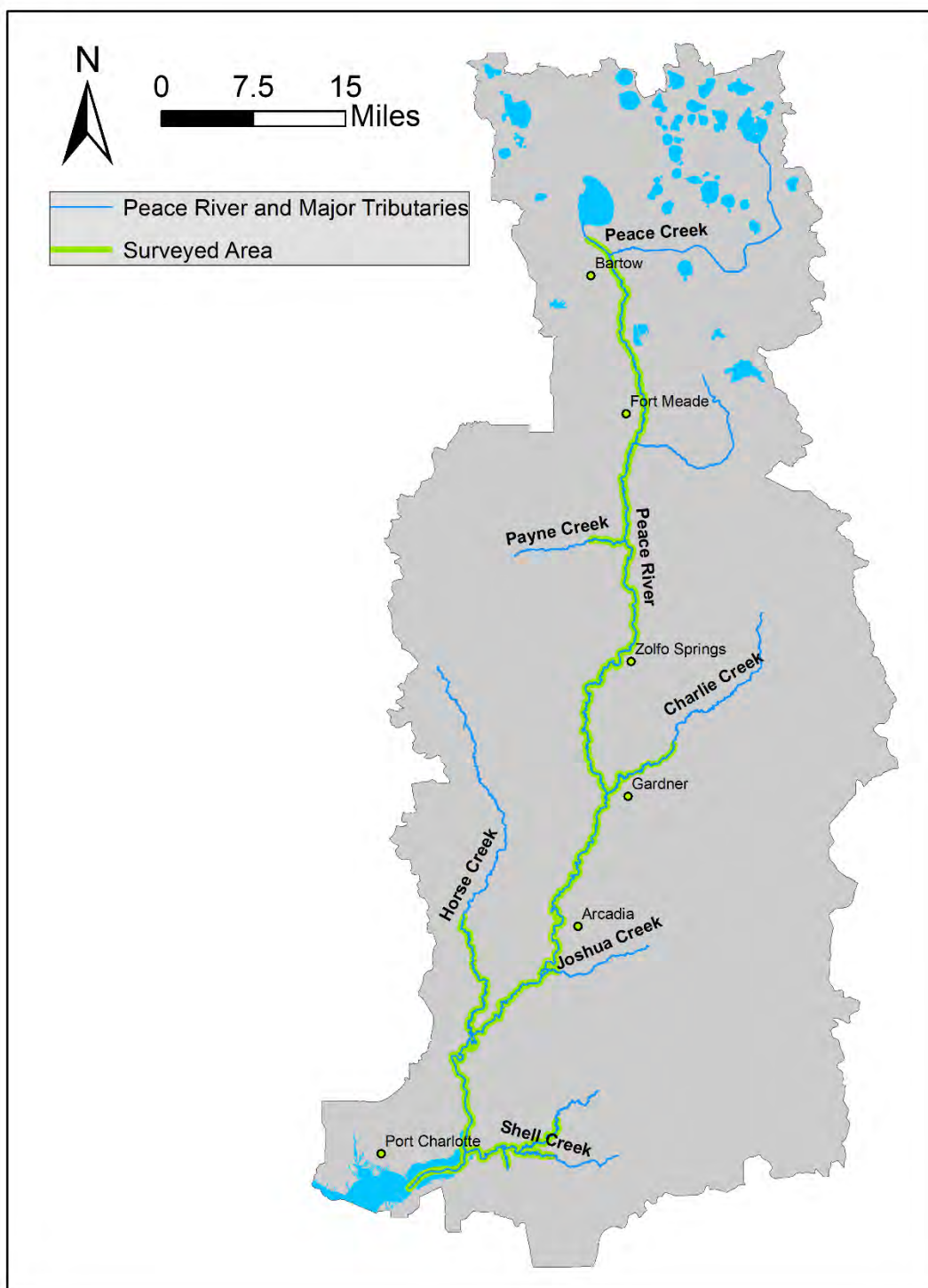


Figure 6. Area surveyed within the Peace River Watershed during 2015-2019.

Table 2. Number of river miles and impairment sites assessed in each waterbody within the Peace River Watershed during 2015-2019.

Waterbody	River Miles	Impairment Sites
Peace River	103.7	278
Charlie Creek	21.8	117
Horse Creek	14.8	63
Prairie Creek	9.2	27
Shell Creek	8.7	6
Payne Creek	3.5	7
Joshua Creek	2.4	9
Saddle Creek	2.3	2
Myrtle Slough	1.25	1
Whidden Creek	0.07	1
Limestone Creek	0.04	1
Total:	167.7	512



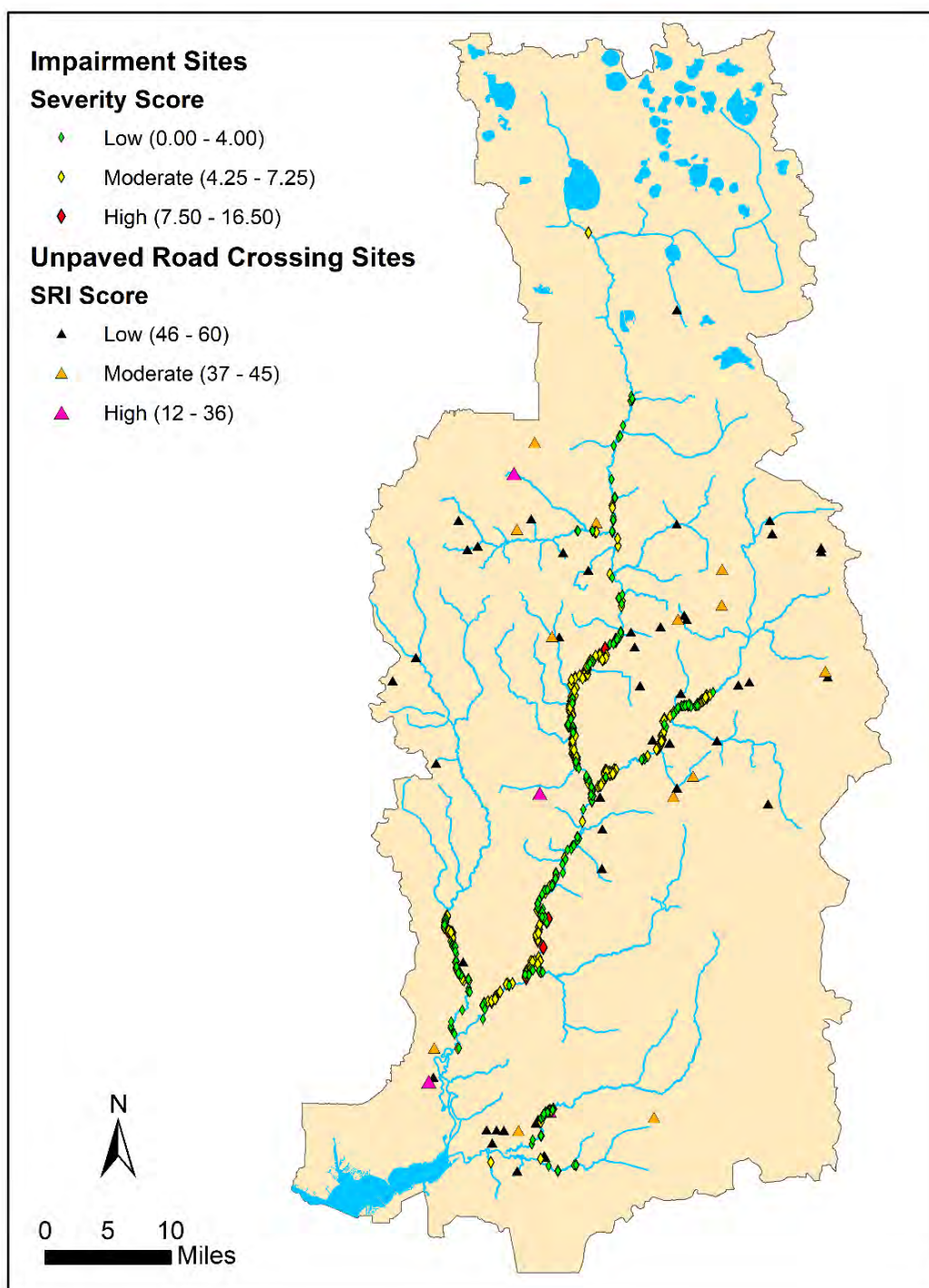


Figure 7. Location and ranking of all scored impairment sites and unpaved road crossing sites in the Peace River Watershed during 2015-2019. SRI = Sediment Risk Index.

Table 3. Frequency (number) and site length (feet) of impairment sites for each severity score category (low, moderate, and high), per waterbody, that were identified in the Peace River Watershed during 2015-2019.

Waterbody	Severity Score	Range	Frequency	Site Length (ft)	Waterbody	Severity Score	Range	Frequency	Site Length (ft)
Peace River Watershed (Total)	Low	0.00-4.00	181	33,026	Payne Creek	Low	0.00-4.00	5	154
	Moderate	4.25-7.25	321	78,048		Moderate	4.25-7.25	2	85
	High	7.50-16.5	10	2,898		High	7.50-16.5	0	0
	Total:		512	113,971		Total:		7	239
Peace River	Low	0.00-4.00	83	19,222	Joshua Creek	Low	0.00-4.00	8	507
	Moderate	4.25-7.25	188	53,160		Moderate	4.25-7.25	1	90
	High	7.50-16.5	7	2,073		High	7.50-16.5	0	0
	Total:		278	74,454		Total:		9	597
Charlie Creek	Low	0.00-4.00	37	6,734	Saddle Creek	Low	0.00-4.00	0	0
	Moderate	4.25-7.25	79	16,968		Moderate	4.25-7.25	2	216
	High	7.50-16.5	1	360		High	7.50-16.5	0	0
	Total:		117	24,062		Total:		2	216
Horse Creek	Low	0.00-4.00	27	3,553	Myrtle Slough	Low	0.00-4.00	0	0
	Moderate	4.25-7.25	34	5,002		Moderate	4.25-7.25	1	90
	High	7.50-16.5	2	465		High	7.50-16.5	0	0
	Total:		63	9,020		Total:		1	90
Prairie Creek	Low	0.00-4.00	16	2,662	Whidden Creek	Low	0.00-4.00	1	11
	Moderate	4.25-7.25	11	2,273		Moderate	4.25-7.25	0	0
	High	7.50-16.5	0	0		High	7.50-16.5	0	0
	Total:		27	4,935		Total:		1	11
Shell Creek	Low	0.00-4.00	4	138	Limestone Creek	Low	0.00-4.00	1	45
	Moderate	4.25-7.25	2	164		Moderate	4.25-7.25	0	0
	High	7.50-16.5	0	0		High	7.50-16.5	0	0
	Total:		6	302		Total:		1	45

Table 4. Frequency and percent of unpaved road crossings, per Sediment Risk Index (SRI) score, that were identified in the Peace River Watershed during 2015-2019.

SRI	Range	Frequency	Percent
Low	46-60	46	72.6
Moderate	37-45	12	21.0
High	12-36	4	6.5
Total Sites:		62	

Table 5. Table of restoration options for impairment sites.

<p><b>Restoration Option 1:</b> Bank stabilization (mechanical). Install toe wood structures (regrade bank, place root wad logs over foundation logs, grade in a bankfull bench and low terrace, cover bank with erosion control fiber, and follow a native vegetation planting plan); install J-hook or cross vane structures if necessary; and restrict cattle, recreational, and vehicle access (pave road if necessary).</p>
<p><b>Restoration Option 2:</b> Bank stabilization (mechanical or non-mechanical). Regrade bank if necessary (grade in a bankfull bench and low terrace, cover with erosion control fiber, and follow native vegetation planting plan) and restrict cattle, recreational, and vehicle access (pave road if necessary).</p>
<p><b>Restoration Option 3:</b> Passive restoration (non-mechanical). Modify land use practices to reverse the cause of impairment (i.e., fence out cattle and block vehicle or recreational access) and allow bank to revegetate and restore naturally by self-recovery.</p>

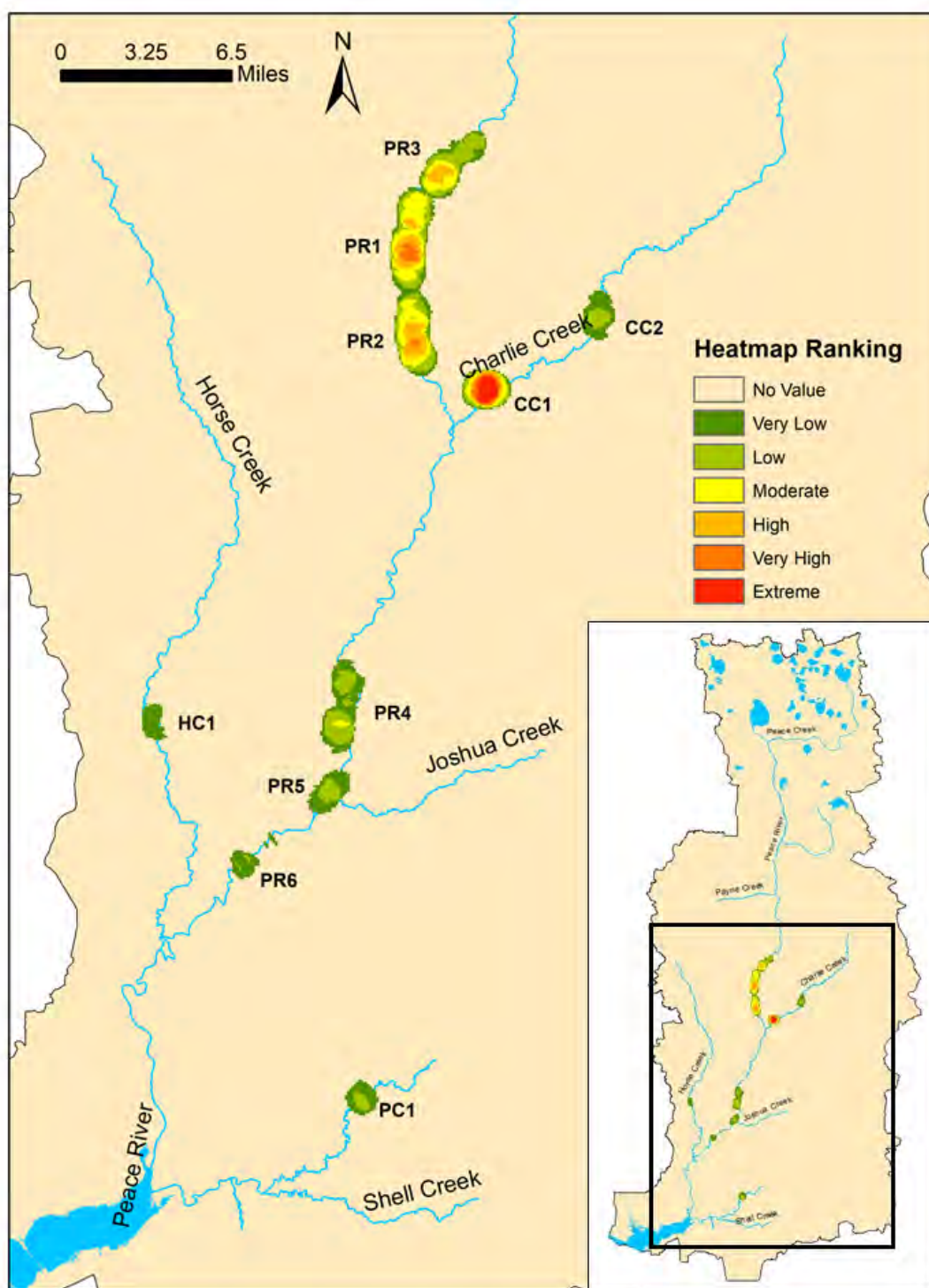


Figure 8. GIS heatmap rankings and impairment site heatmap focal areas for restoration within the Peace River Watershed. Focal area descriptors: PR1 = Peace River 1, PR2 = Peace River 2, ..., PR6 = Peace River 6, CC1 = Charlie Creek 1, CC2 = Charlie Creek 2, PC1 = Prairie Creek 1, and HC1 = Horse Creek 1.

Table 6. Frequency (number) and site length (feet) of impairments for each site severity score, per focal area, that were identified in the Peace River Watershed during 2015-2019.

Focal Area	Severity Score	Range	Frequency	Site Length (ft)	Focal Area	Severity Score	Range	Frequency	Site Length (ft)
Peace River 1 (PR1)	Low	0 - 4.0	6	1,170	Charlie Creek 1 (CC1)	Low	0 - 4.0	0	0
	Moderate	4.25 - 7.25	57	14,745		Moderate	4.25 - 7.25	33	9,850
	High	7.50 - 16.5	0	0		High	7.50 - 16.5	0	0
Total:			63	15,915.0	Total:			33	9,850
Peace River 2 (PR2)	Low	0 - 4.0	5	1,191	Charlie Creek 2 (CC2)	Low	0 - 4.0	1	230
	Moderate	4.25 - 7.25	42	9,932		Moderate	4.25 - 7.25	15	2,940
	High	7.50 - 16.5	2	821		High	7.50 - 16.5	1	360
Total:			49	11,944	Total:			17	3,530
Peace River 3 (PR3)	Low	0 - 4.0	6	2,340	Horse Creek 1 (HC1)	Low	0 - 4.0	1	100
	Moderate	4.25 - 7.25	27	8,372		Moderate	4.25 - 7.25	16	1,810
	High	7.50 - 16.5	1	300		High	7.50 - 16.5	2	465
Total:			34	11,012	Total:			19	2,375
Peace River 4 (PR4)	Low	0 - 4.0	8	3,350	Prairie Creek 1 (PC1)	Low	0 - 4.0	11	2,432
	Moderate	4.25 - 7.25	14	6,608		Moderate	4.25 - 7.25	10	2,117
	High	7.50 - 16.5	1	235		High	7.50 - 16.5	0	0
Total:			23	10,193	Total:			21	4,549
Peace River 5 (PR5)	Low	0 - 4.0	6	732	Tertiary Locations	Low	0 - 4.0	137	21,481
	Moderate	4.25 - 7.25	12	4,549		Moderate	4.25 - 7.25	86	14,223
	High	7.50 - 16.5	0	0		High	7.50 - 16.5	3	716
Total:			18	5,281	Total:			226	36,419
Peace River 6 (PR6)	Low	0 - 4.0	0	0					
	Moderate	4.25 - 7.25	9	2,902					
	High	7.50 - 16.5	0	0					
Total:			9	2,902					



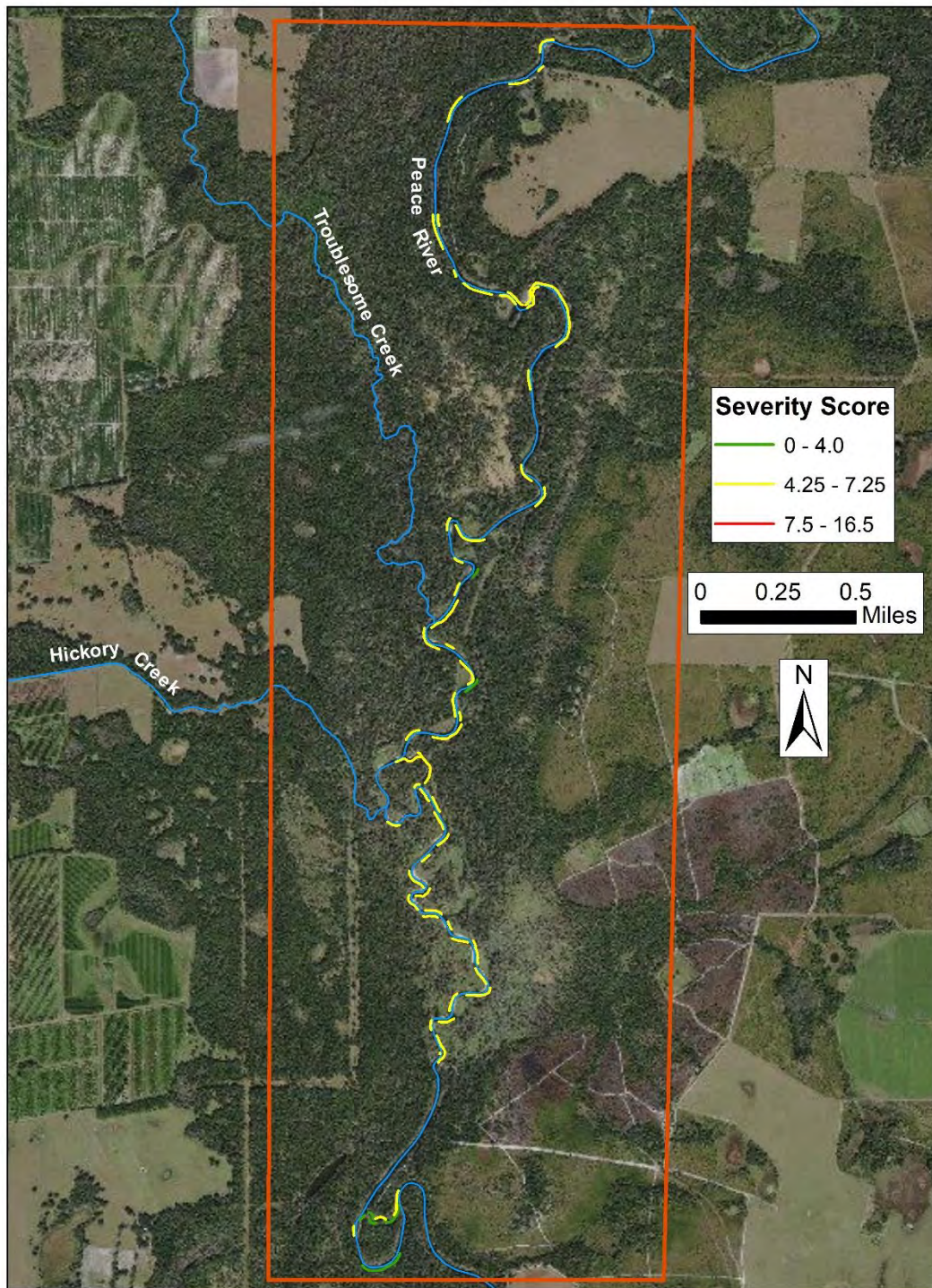


Figure 9. Location and ranking of impairment sites identified in the Peace River 1 focal area.



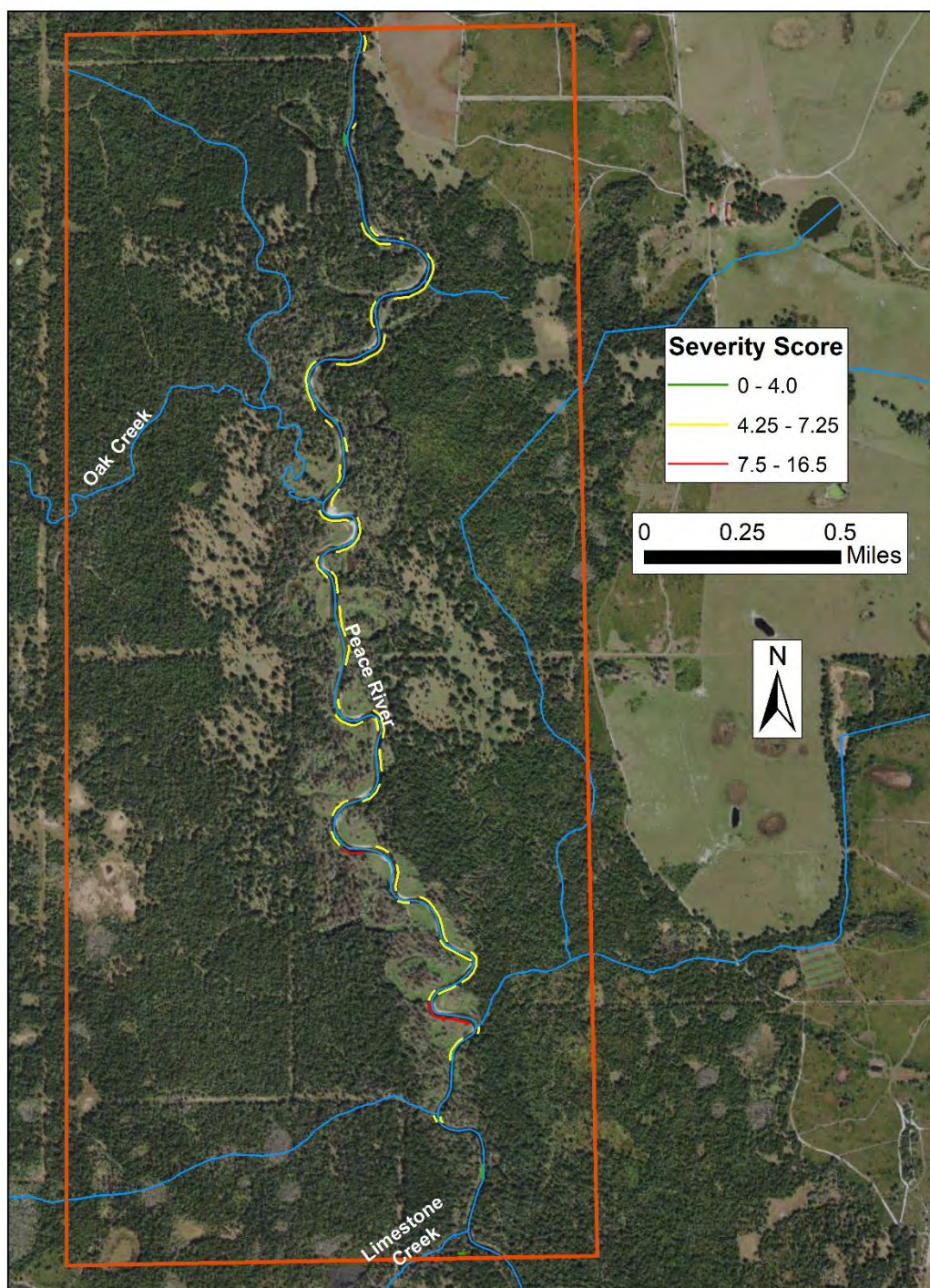


Figure 10. Location and ranking of impairment sites identified in the Peace River 2 focal area.



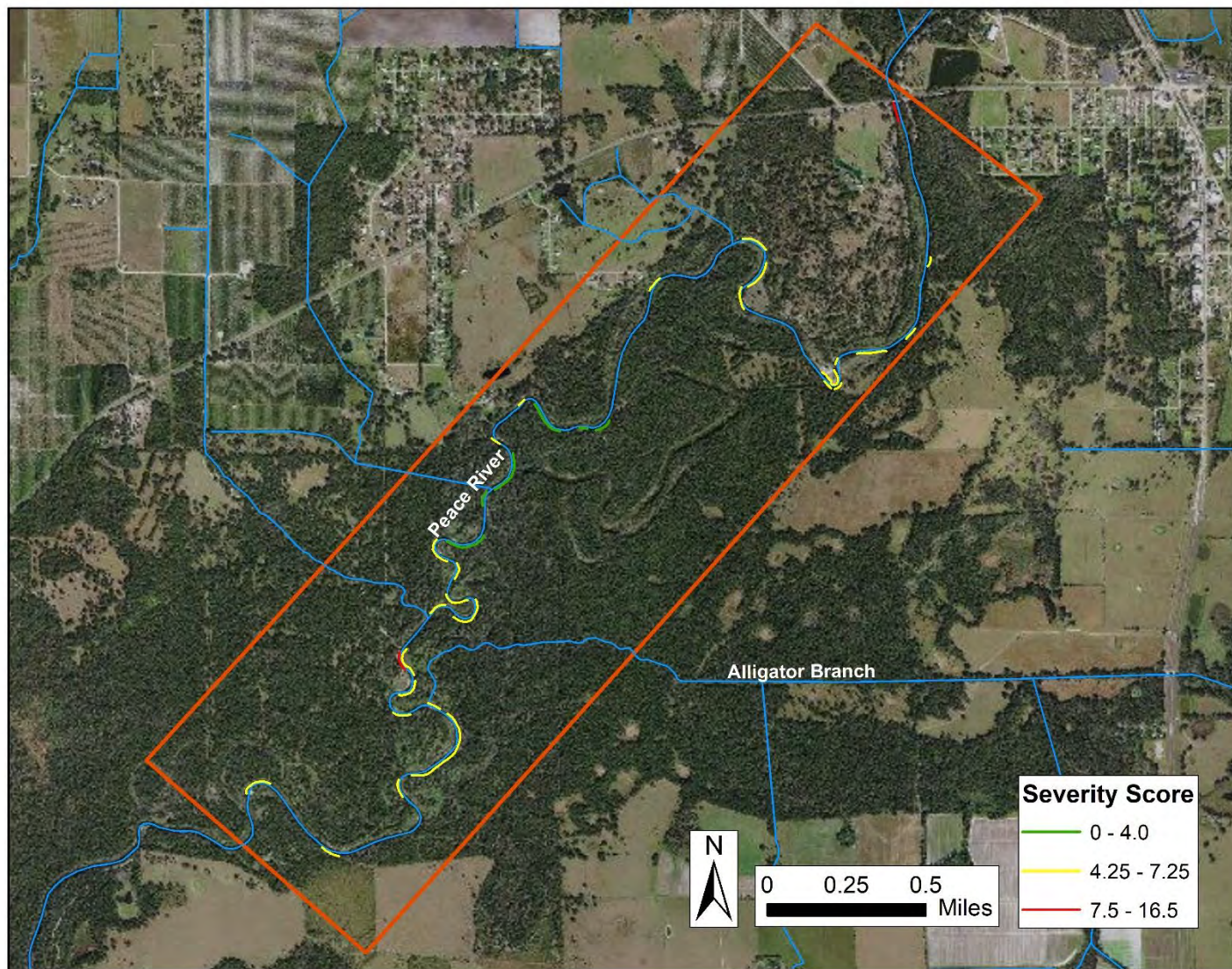


Figure 11. Location and ranking of impairment sites identified in the Peace River 3 focal area.



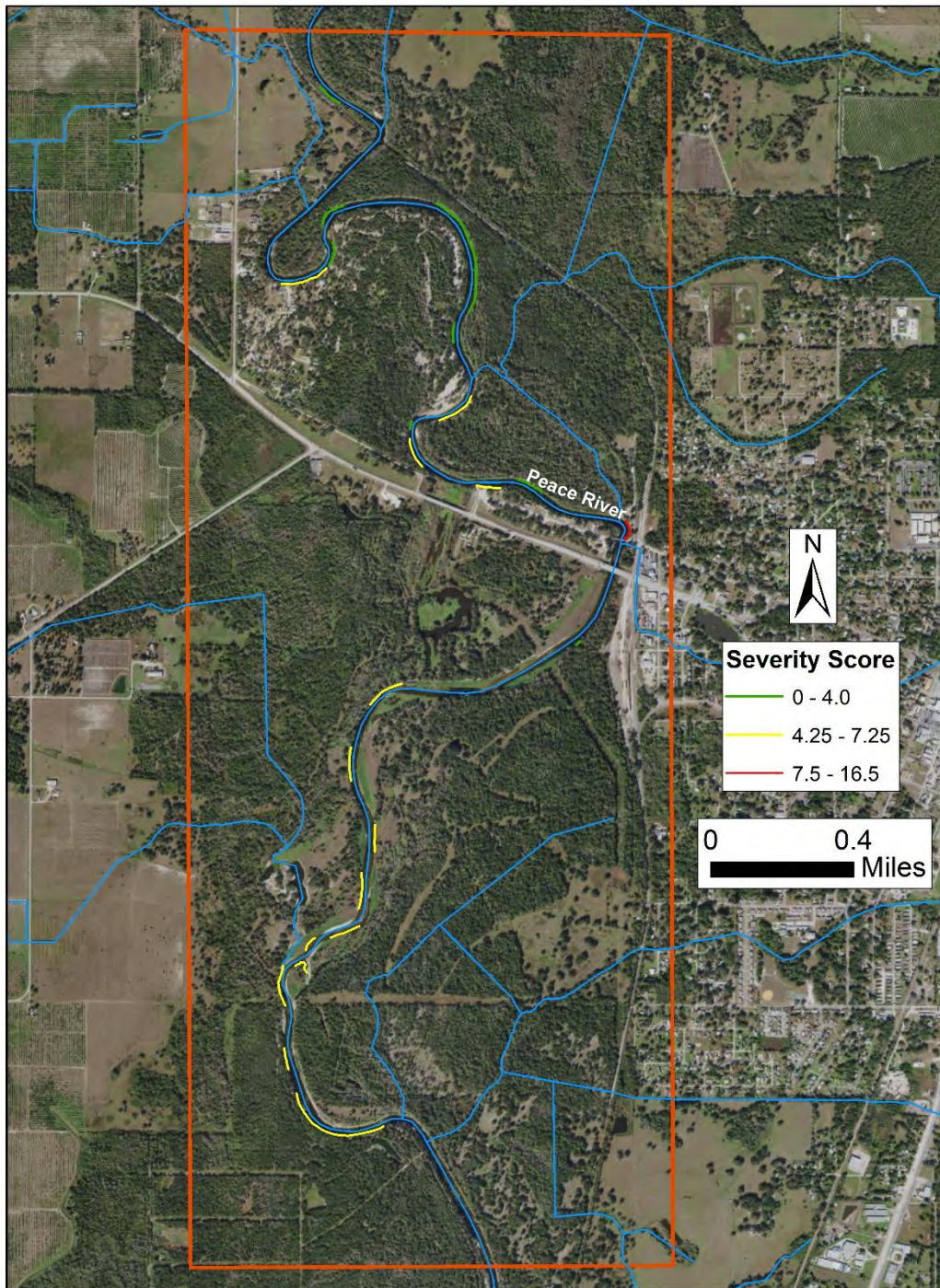


Figure 12. Location and ranking of impairment sites identified in the Peace River 4 focal area.



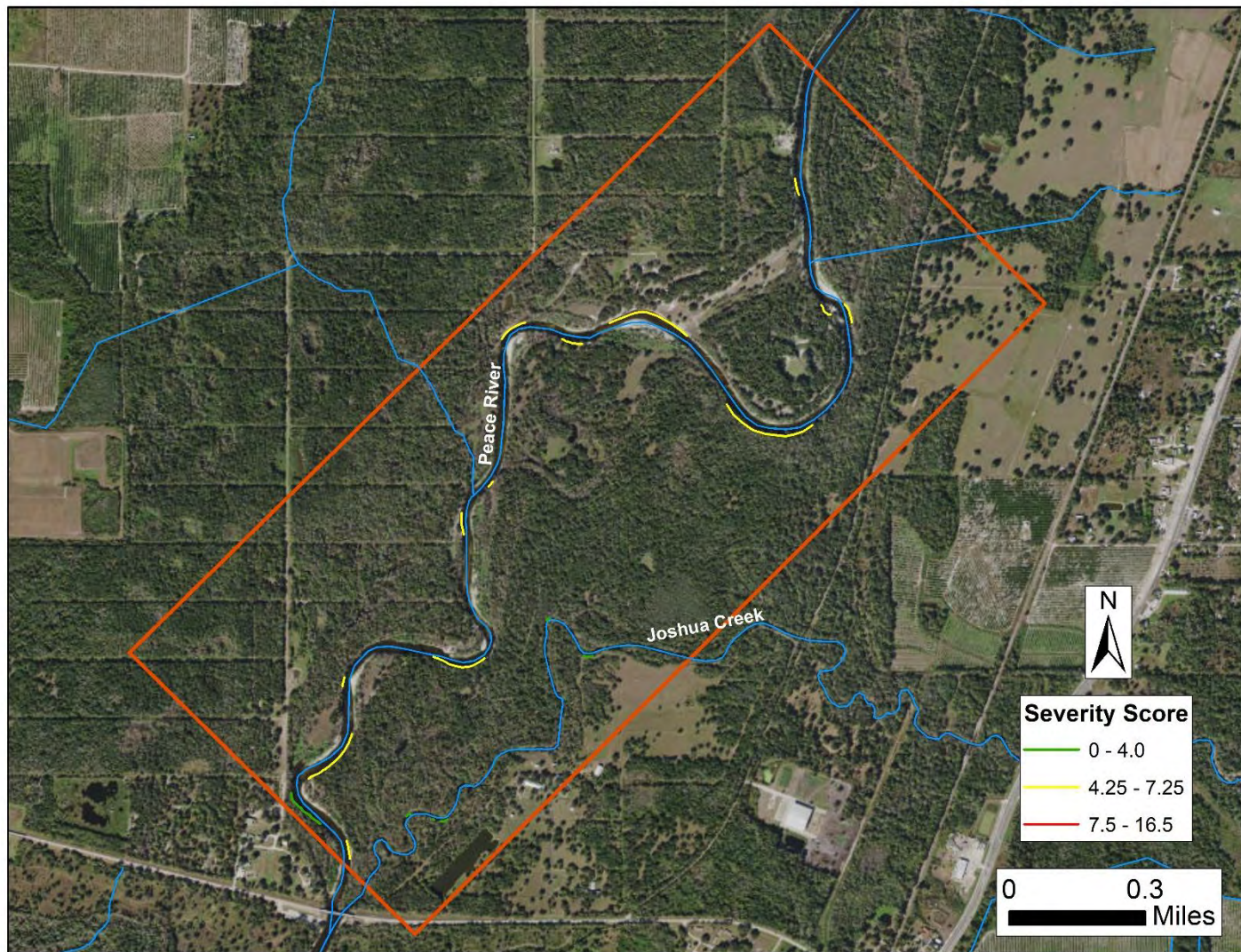


Figure 13. Location and ranking of impairment sites identified in the Peace River 5 focal area.



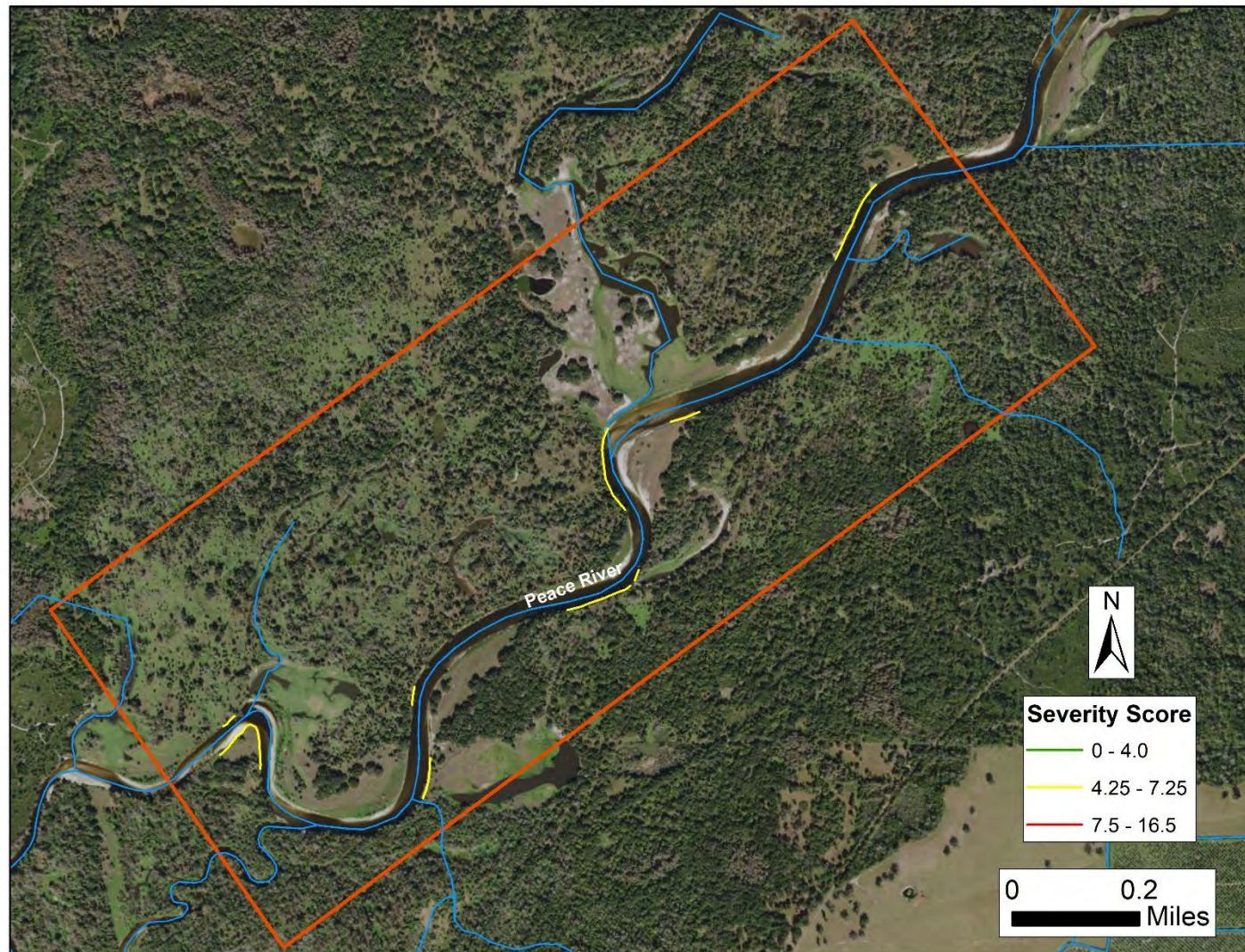


Figure 14. Location and ranking of impairment sites identified in the Peace River 6 focal area.



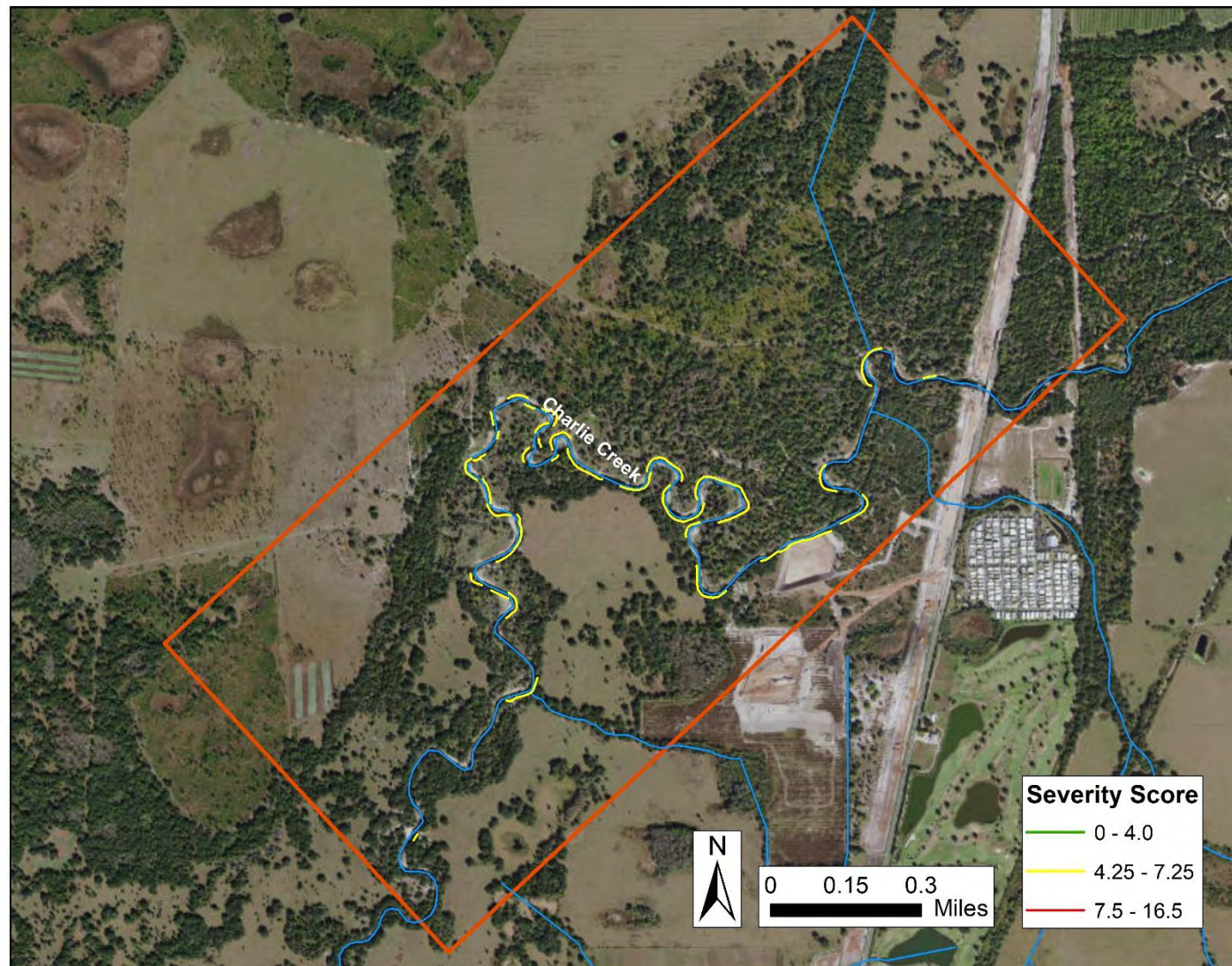


Figure 15. Location and ranking of impairment sites identified in the Charlie Creek 1 focal area.



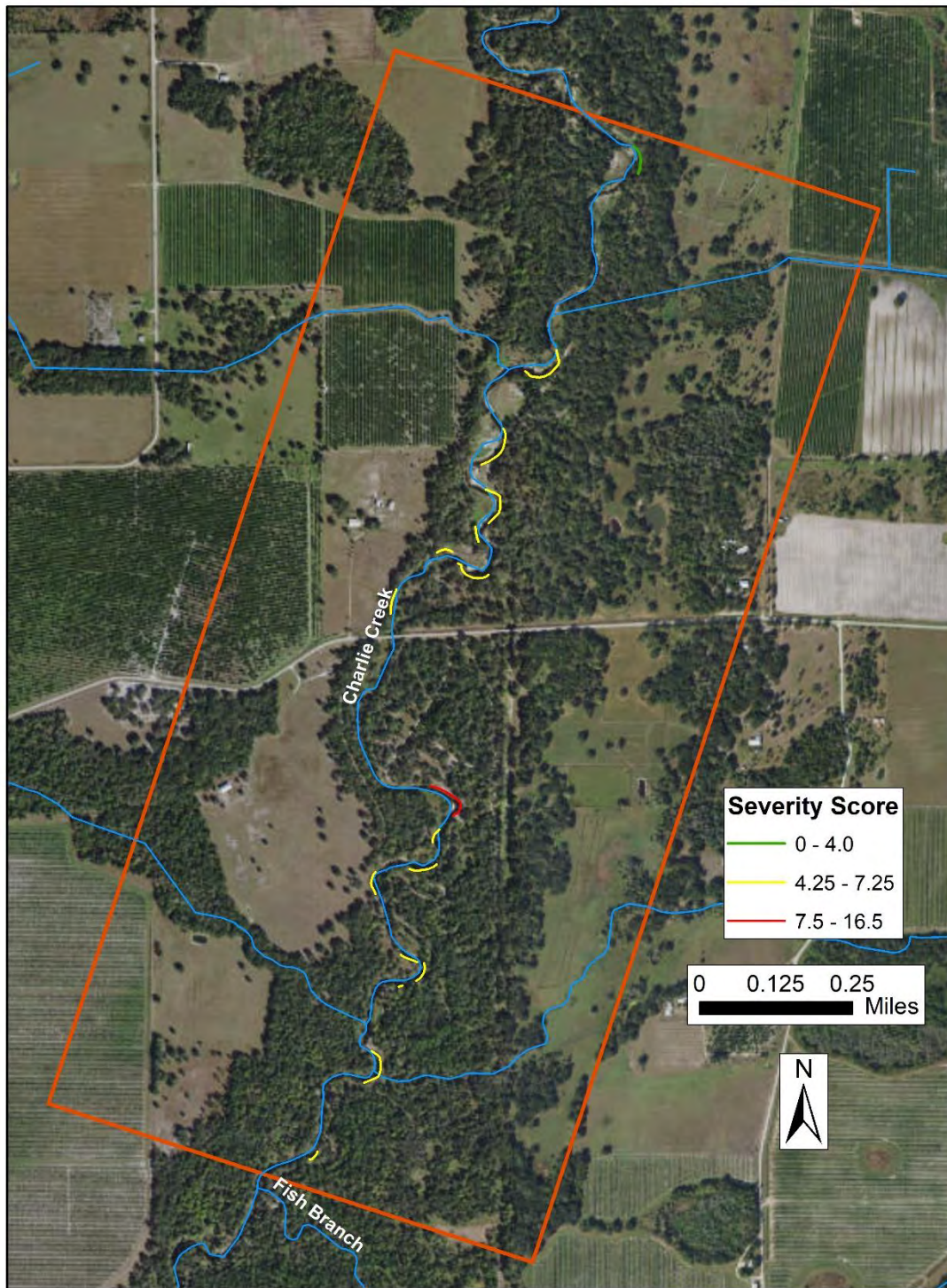


Figure 16. Location and ranking of impairment sites identified in the Charlie Creek 2 focal area.



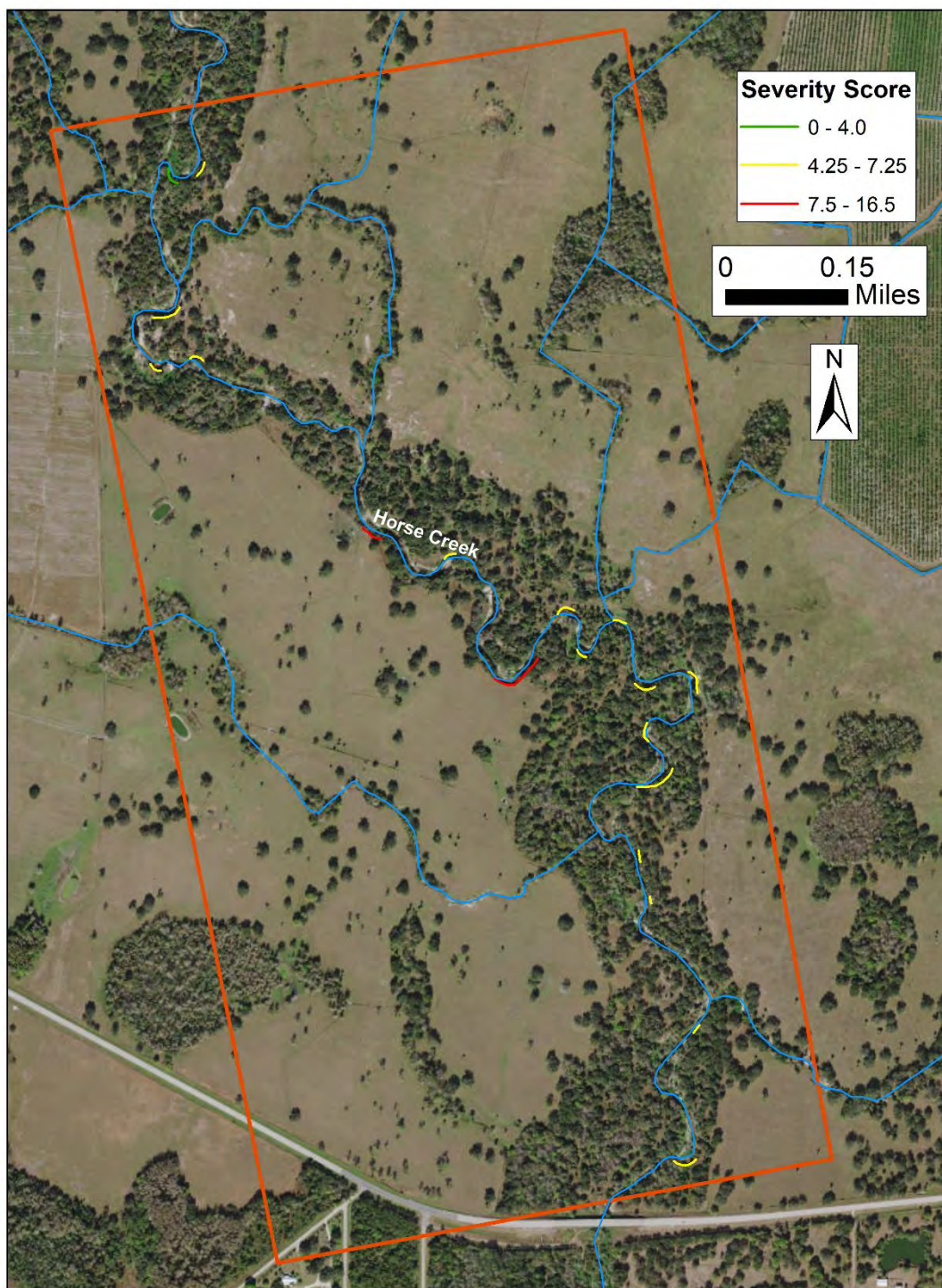


Figure 17. Location and ranking of impairment sites identified in the Horse Creek 1 focal area.



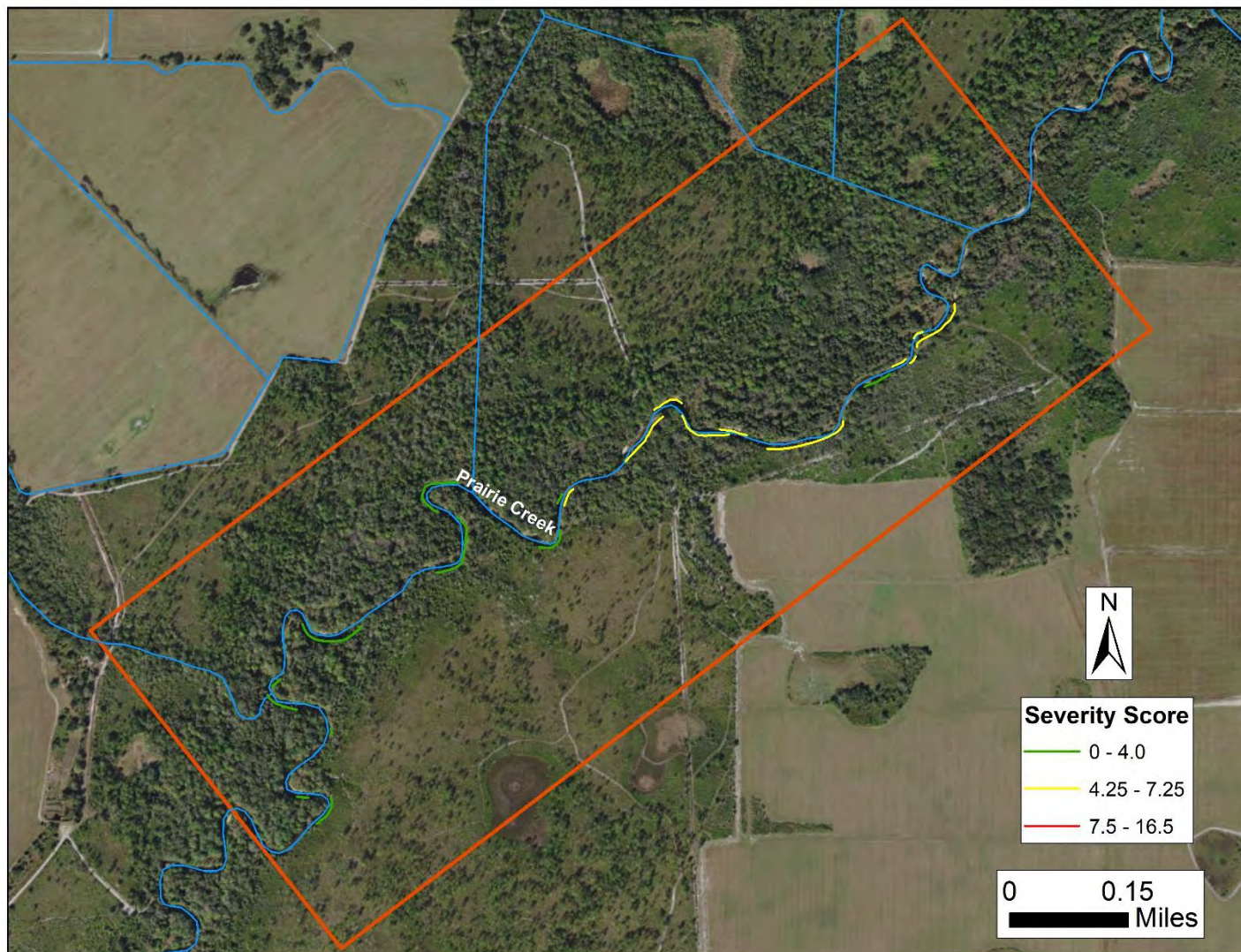


Figure 18. Location and ranking of impairment sites identified in the Prairie Creek 1 focal area.



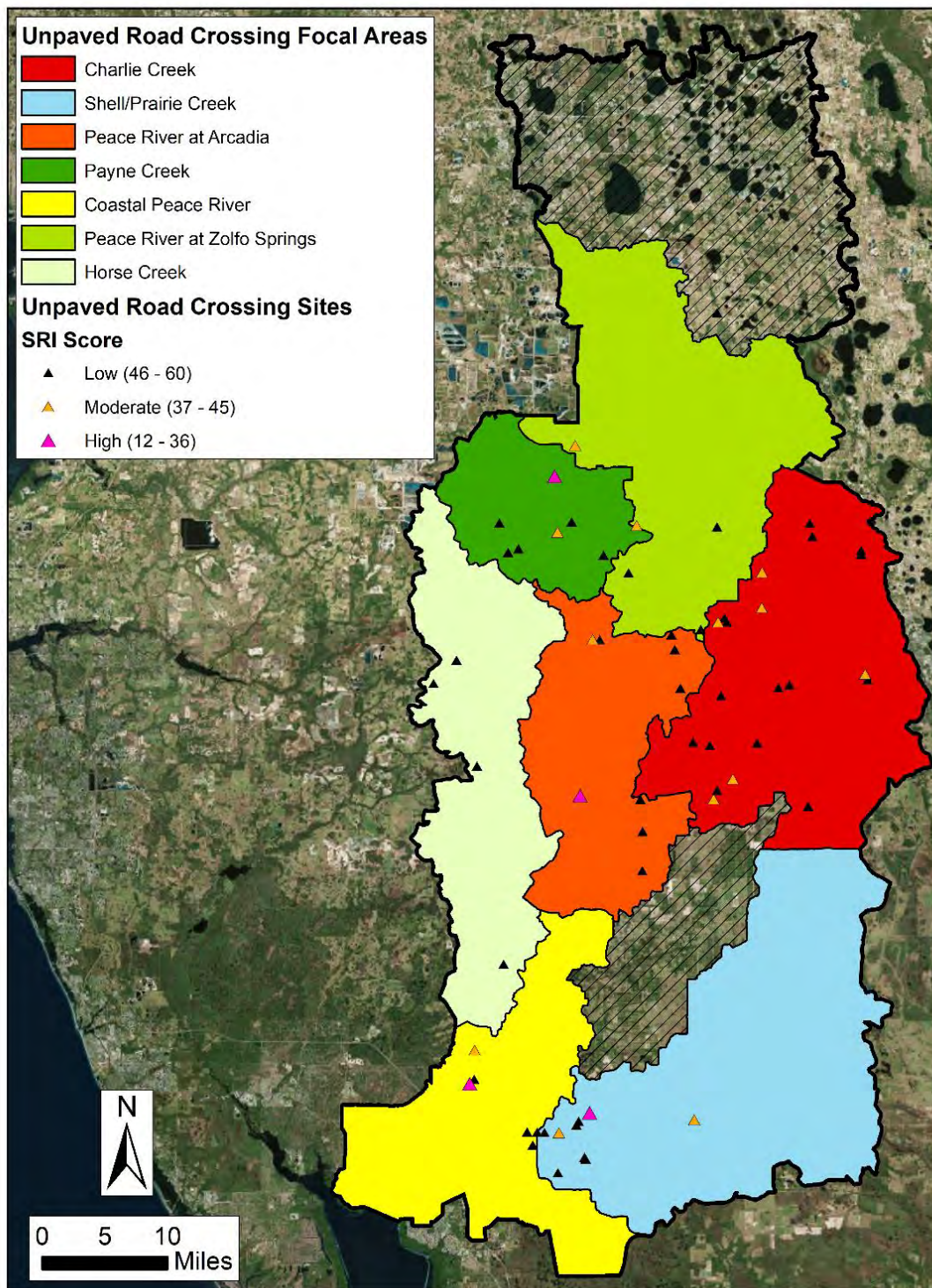


Figure 19. Location and ranking of all scored unpaved road crossings, per focal area, within the Peace River Watershed.



Table 7. Frequency (number) of unpaved road crossing sites for each Sediment Risk Index (SRI) category (low, moderate, and high), per focal area, that were surveyed in the Peace River Watershed during 2015-2019.

<b>Focal Area</b>	<b>SRI</b>	<b>Range</b>	<b>Frequency</b>	<b>Focal Area</b>	<b>SRI</b>	<b>Range</b>	<b>Frequency</b>
Charlie Creek	Low	46-60	16	Coastal Peace River	Low	46-60	3
	Moderate	37-45	6		Moderate	37-45	1
	High	12-36	0		High	12-36	1
Total Sites:			22	Total Sites:			5
Shell/Prairie Creek	Low	46-60	7	Peace River at Zolfo Springs	Low	46-60	3
	Moderate	37-45	2		Moderate	37-45	2
	High	12-36	1		High	12-36	0
Total Sites:			10	Total Sites:			5
Peace River at Arcadia	Low	46-60	7	Horse Creek	Low	46-60	4
	Moderate	37-45	1		Moderate	37-45	0
	High	12-36	1		High	12-36	0
Total Sites:			9	Total Sites:			4
Payne Creek	Low	46-60	5				
	Moderate	37-45	1				
	High	12-36	1				
Total Sites:			7				

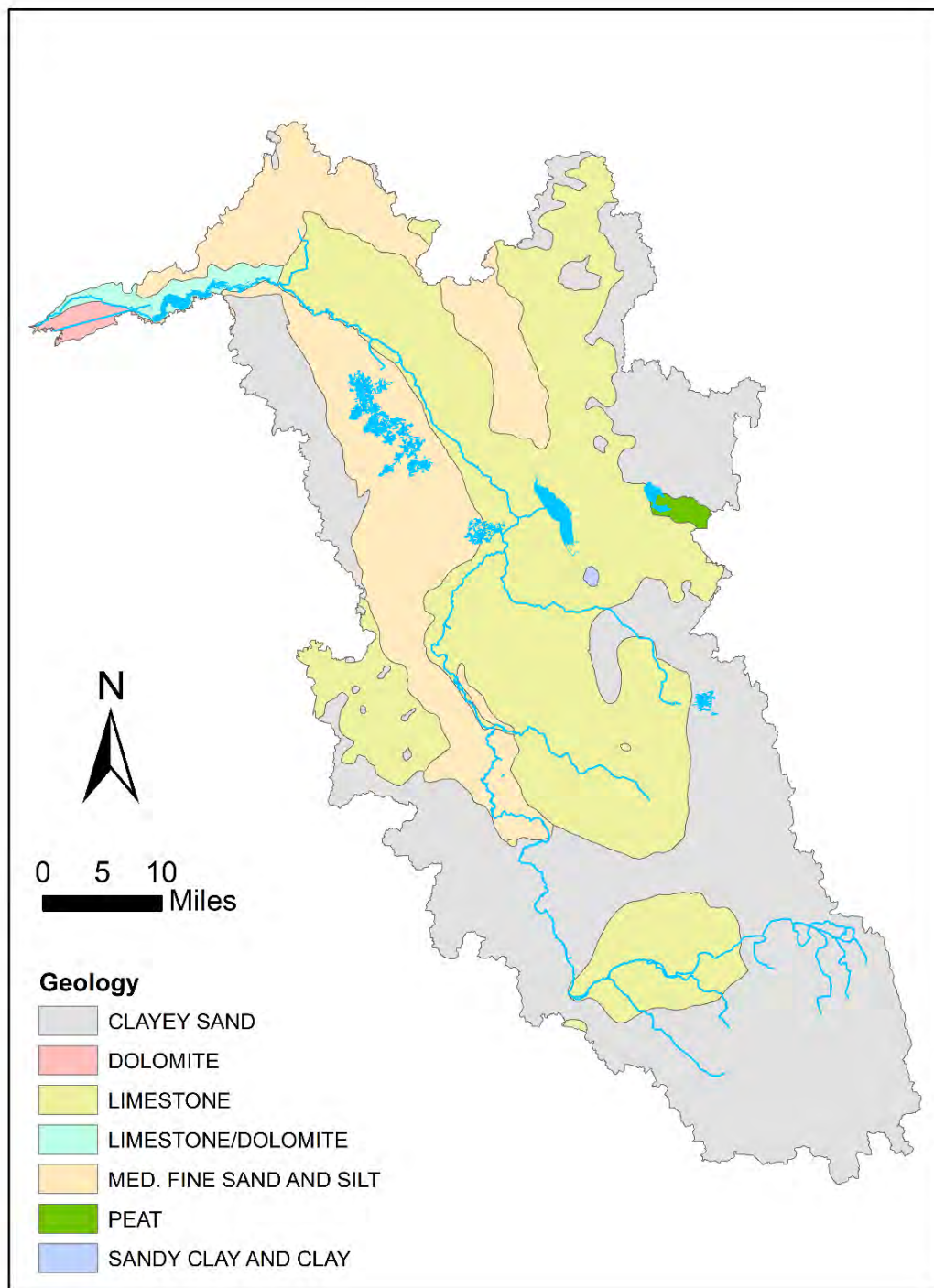


Figure 20. Geology of the Withlacoochee River Watershed.

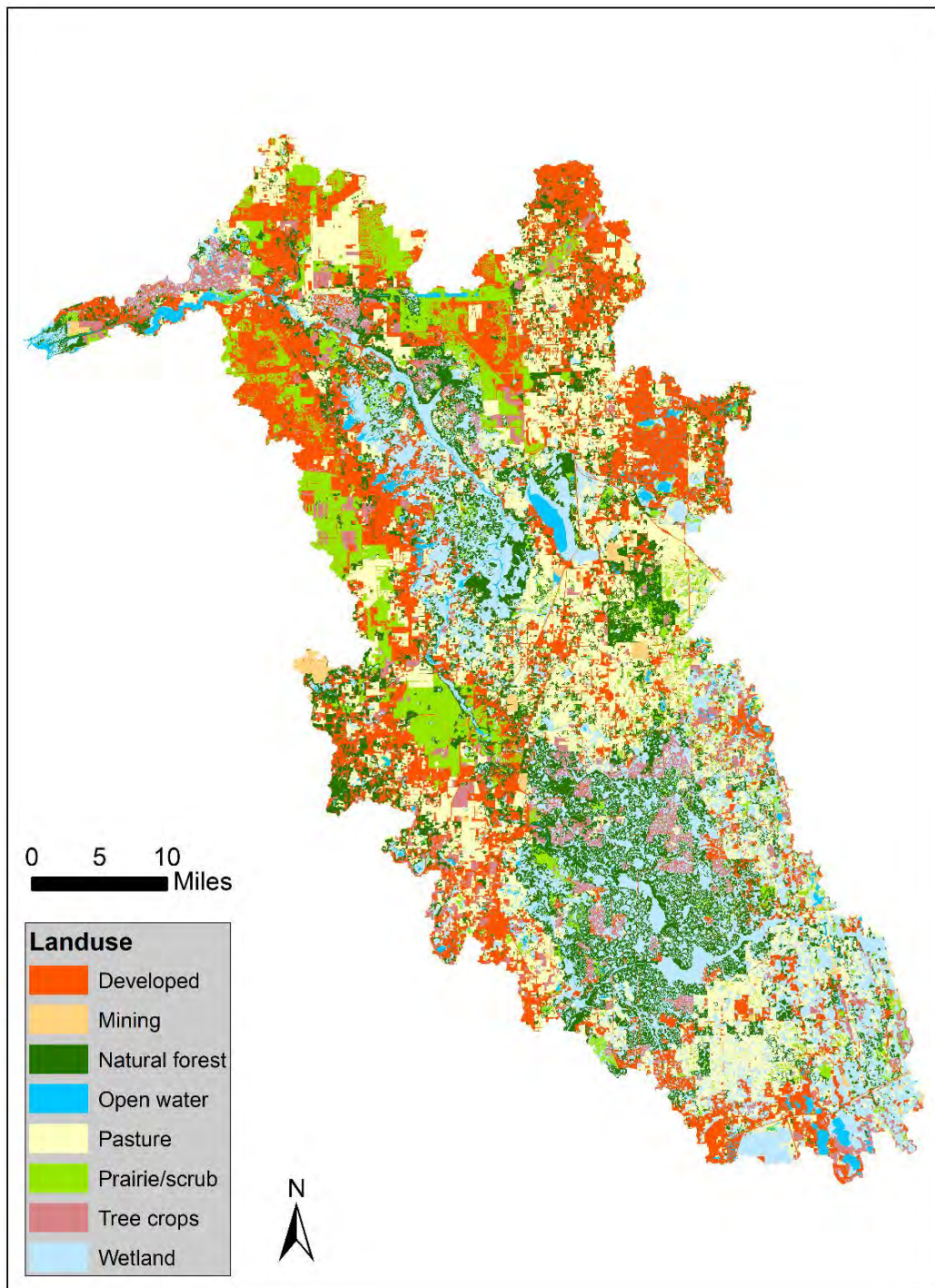


Figure 21. Land use land cover of the Withlacoochee River Watershed.

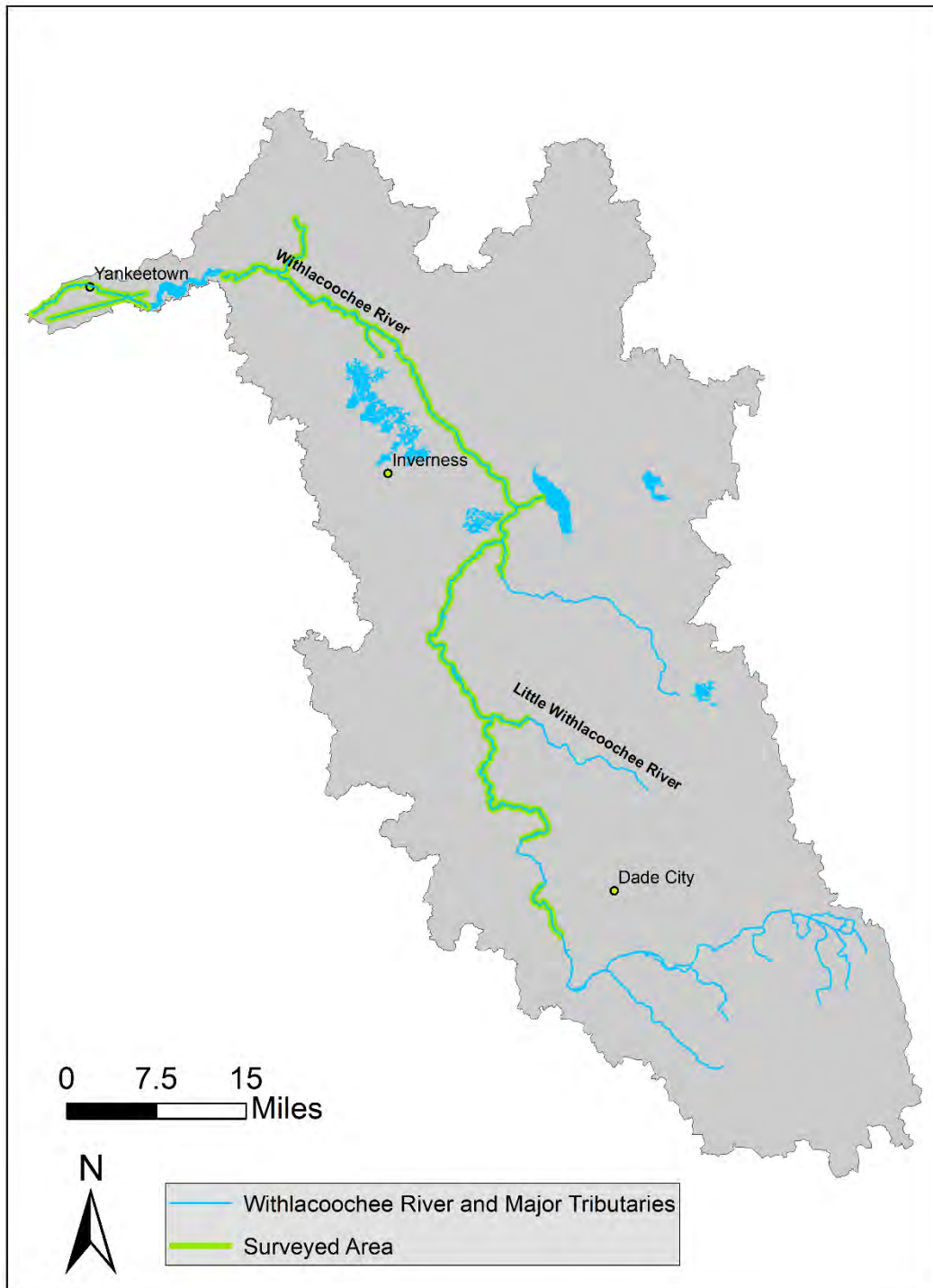


Figure 22. Area surveyed within the Withlacoochee River Watershed during 2015-2019. Note the small section west of Dade City was not surveyed due to numerous log jams.

Table 8. Number of river miles and impairment sites assessed in each waterbody within the Withlacoochee River Watershed during 2015-2019.

Waterbody	River Miles	Impairment Sites
Withlacoochee River	114.7	24
Rainbow River	5.6	0
Little Withlacoochee River	5.1	0
Jumper Creek	3.3	0
Tsala Apopka Canal	2.8	0
Total:	131.6	24

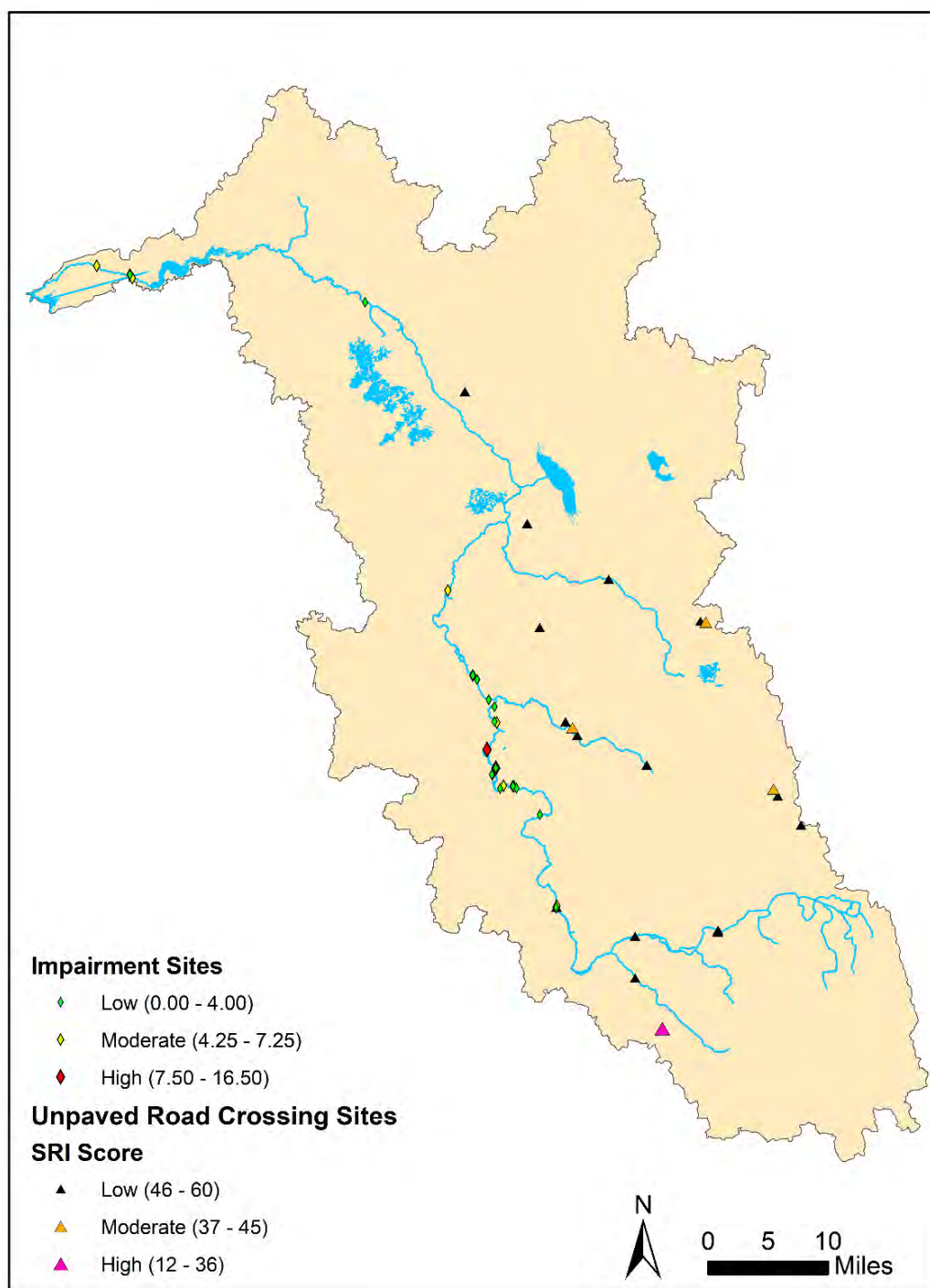


Figure 23. Location and ranking of all scored impairment sites and unpaved road crossing sites in the Withlacoochee River Watershed during 2015-2019. SRI = Sediment Risk Index.

Table 9. Frequency (number) and site length (feet) of impairment sites for each severity score category (low, moderate, and high) that were identified in the Withlacoochee River during 2015-2019 (no impairment sites were identified on tributaries).

<b>Severity Score</b>	<b>Range</b>	<b>Frequency</b>	<b>Site Length (ft)</b>
Low	0 - 4.0	15	1,229
Moderate	4.25-7.25	7	673
High	7.50-16.5	2	32
Total:		24	1,934

Table 10. Frequency and percent of unpaved road crossings per Sediment Risk Index (SRI) category that were identified in the Withlacoochee River Watershed during 2015-2019.

<b>SRI</b>	<b>Range</b>	<b>Frequency</b>	<b>Percent</b>
Low	46-60	16	80.0
Moderate	37-45	3	15.0
High	12-36	1	5.0
Total Sites:		20	



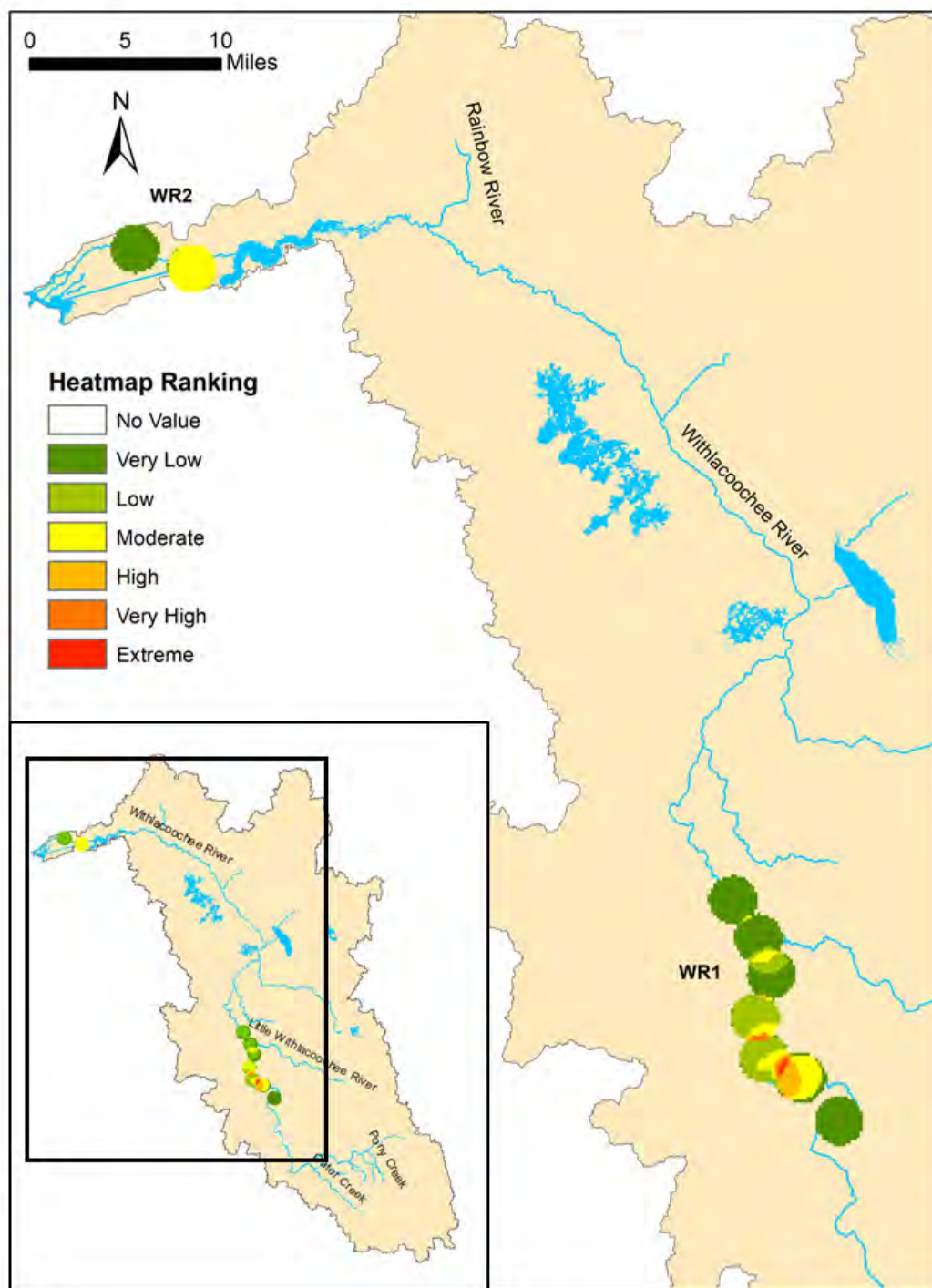


Figure 24. GIS heatmap rankings and impairment site heatmap focal areas for restoration within the Withlacoochee River Watershed. Focal area descriptors WR1=Withlacoochee River 1 and WR2=Withlacoochee River 2.



Table 11. Frequency (number) and site length (feet) of impairments for each site severity score category (low, moderate, and high), per focal area and tertiary locations, that were identified in the Withlacoochee River Watershed during 2015-2019.

<b>Focal Area</b>	<b>Severity Score</b>	<b>Range</b>	<b>Frequency</b>	<b>Site Length (ft)</b>
Withlacoochee River 1 (WR1)	Low	0 - 4.0	12	942
	Moderate	4.25 - 7.25	3	218
	High	7.50 - 16.5	2	32
	Total:		17	1,192
Withlacoochee River 2 (WR2)	Low	0 - 4.0	1	25
	Moderate	4.25 - 7.25	2	400
	High	7.50 - 16.5	0	0
	Total:		3	425
Tertiary Locations	Low	0 - 4.0	2	262
	Moderate	4.25 - 7.25	2	55
	High	7.50 - 16.5	0	0
	Total:		4	317

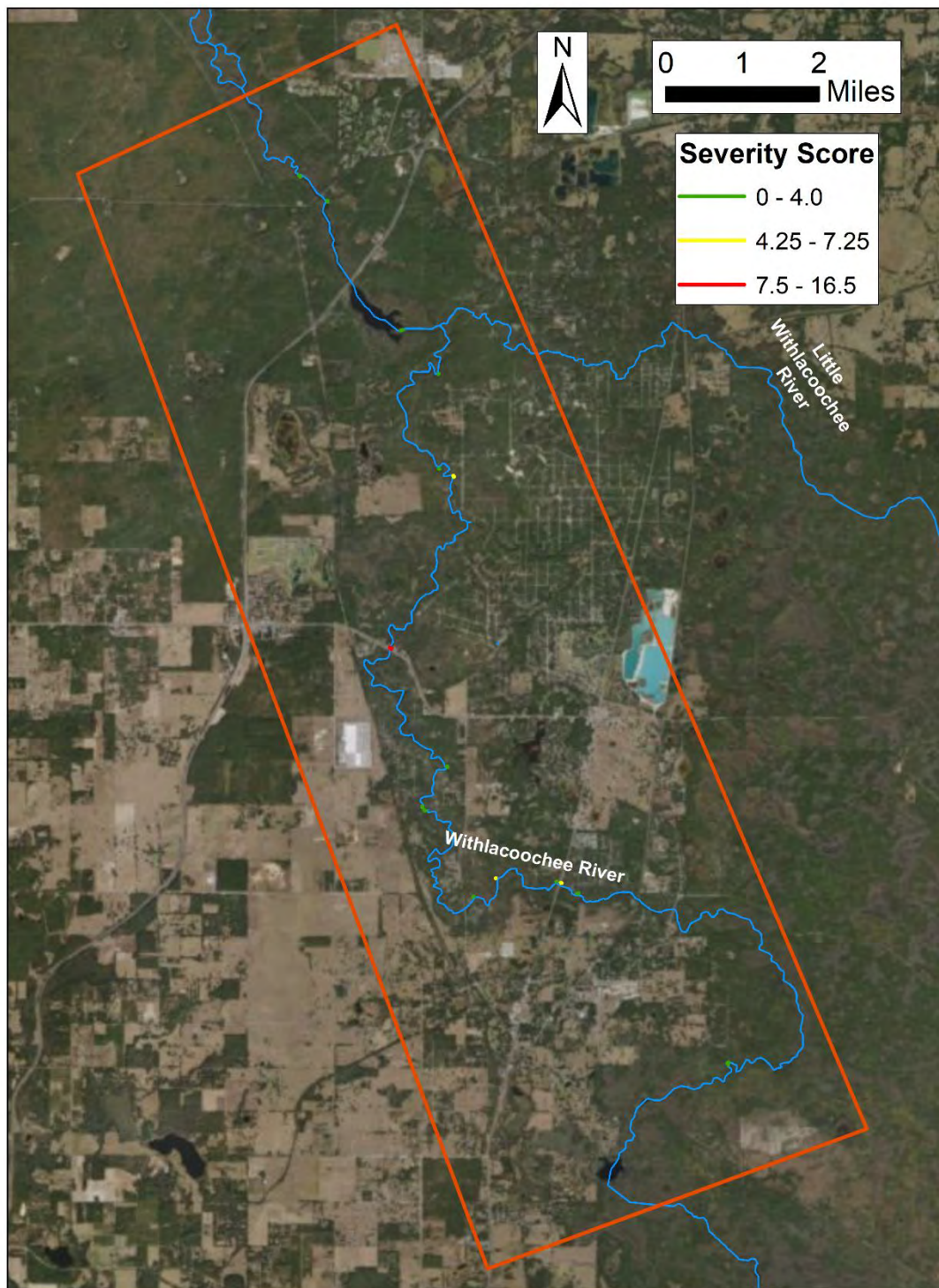


Figure 25. Location and ranking of impairment sites identified in the Withlacoochee River 1 focal area.



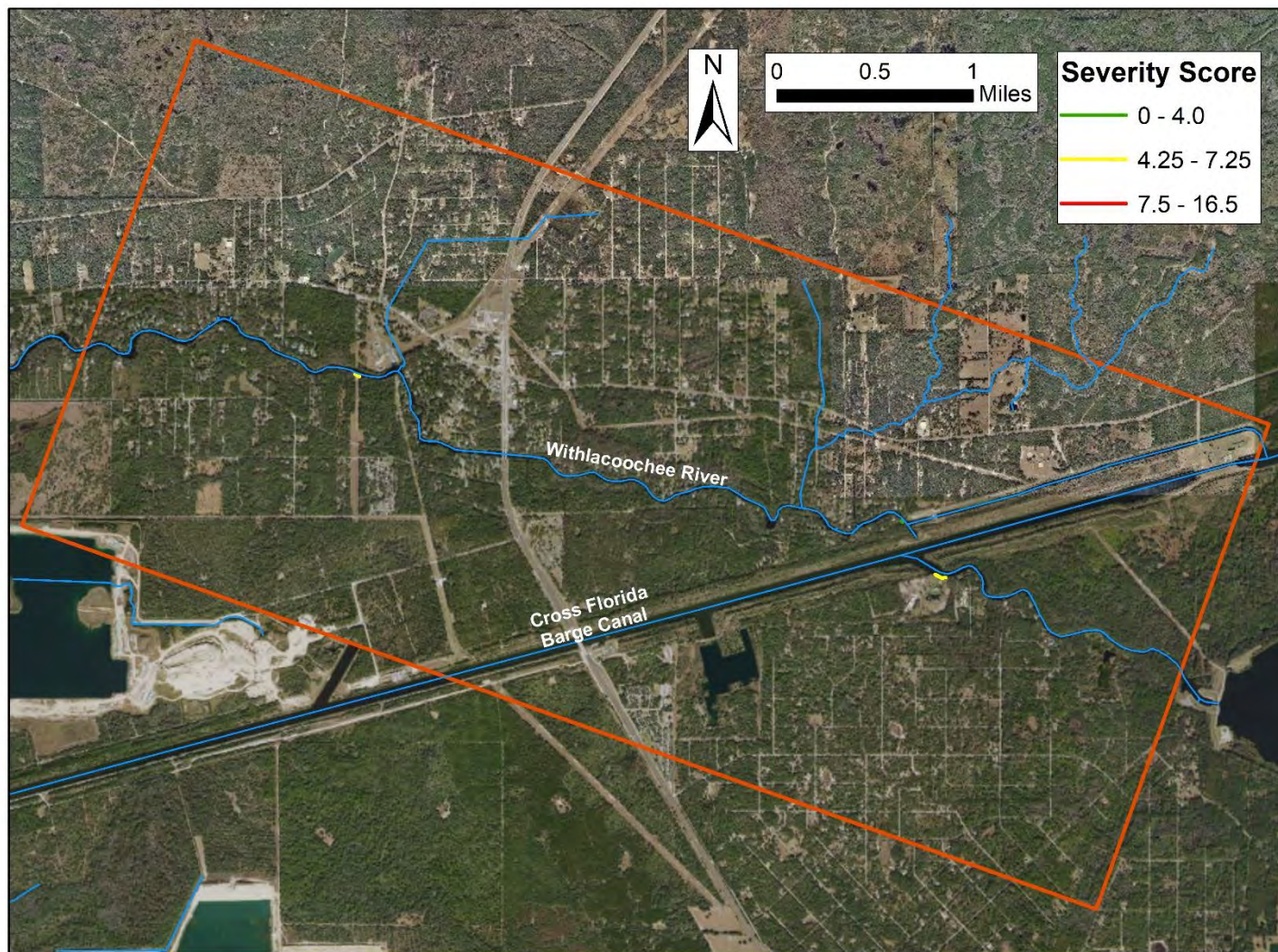


Figure 26. Location and ranking of impairment sites identified in the Withlacoochee River 2 focal area.



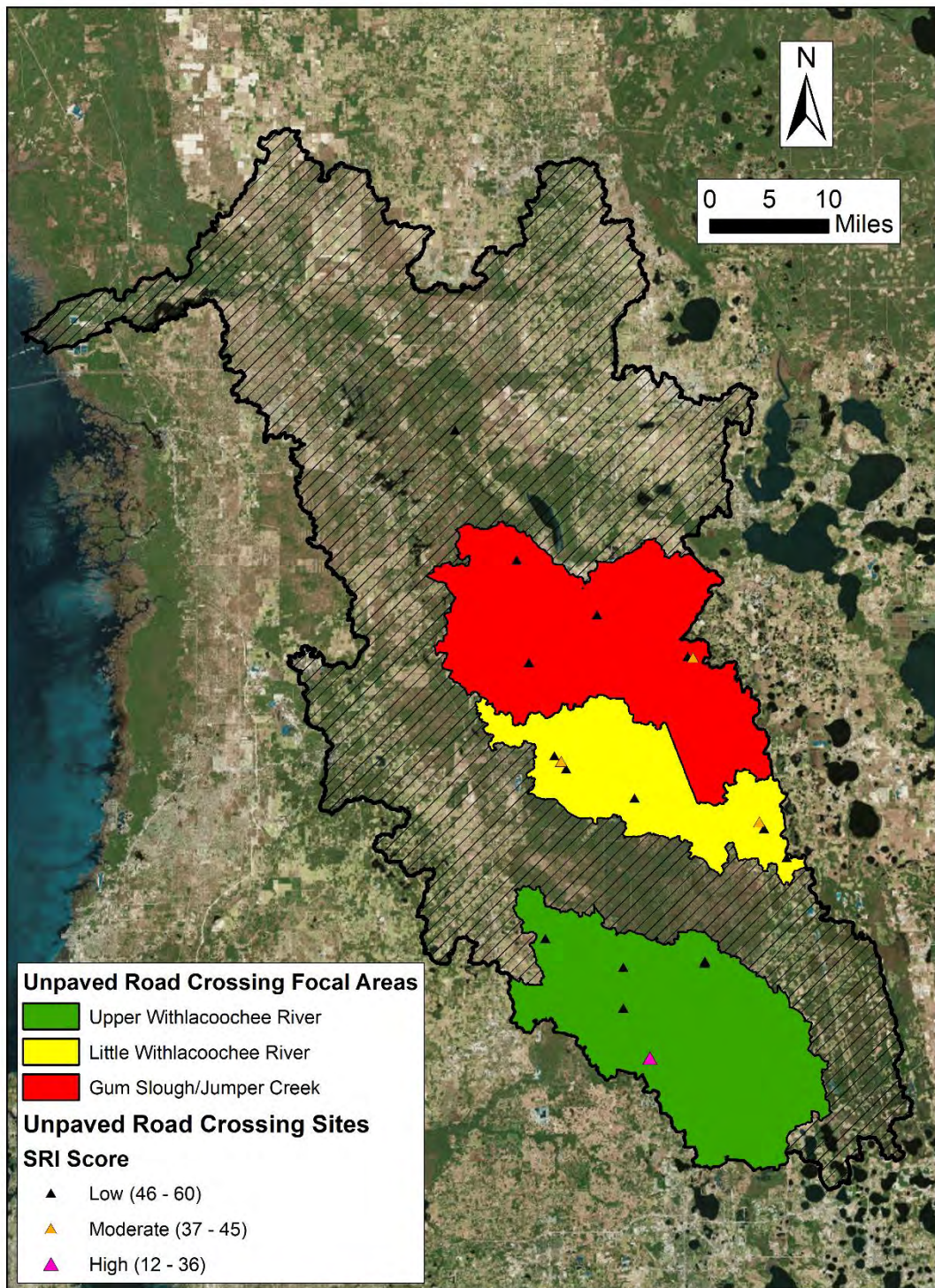


Figure 27. Location and ranking of all scored unpaved road crossing, per focal area, within the Withlacoochee River Watershed.

Table 12. Number of unpaved road crossing sites for each Sediment Risk Index (SRI) category, per focal area, that were surveyed in the Withlacoochee River Watershed during 2015-2019.

<b>Focal Area</b>	<b>SRI</b>	<b>Range</b>	<b>Frequency</b>
Upper Withlacoochee River	Low	46-60	6
	Moderate	37-45	0
	High	12-36	1
Total Sites:			7
Little Withlacoochee River	Low	46-60	5
	Moderate	37-45	2
	High	12-36	0
Total Sites:			7
Gum Slough/Jumper Creek	Low	46-60	4
	Moderate	37-45	1
	High	12-36	0
Total Sites:			5

Table 13. Abundance, relative abundance, weight (grams), and percent composition by number and weight of fish species collected by electrofishing during the 3 spring sampling events (2016, 2017, and 2018) on the Withlacoochee River. # = number, CPUD = catch per unit distance (individuals/kilometer), SE = standard error, Wt. (g) = weight in grams, % Comp. = percent composition, \* = marine species, \*\* = non-native species, and NM = not measured.

Common Name	Scientific Name	#	Fish/km		% Comp.	
			CPUD (SE)	Wt. (g)	#	Wt.
*American eel	<i>Anguilla rostrata</i>	16	1.4 (<0.1)	3,835	0.1	0.4
*Atlantic needlefish	<i>Strongylura marina</i>	5	0.4 (<0.1)	100	<0.1	<0.1
black crappie	<i>Pomoxis nigromaculatus</i>	31	2.7 (0.1)	616	0.2	0.1
**blue tilapia	<i>Oreochromis aurea</i>	1	0.1 (<0.1)	1,237	<0.1	0.1
bluefin killifish	<i>Lucania goodei</i>	222	19.6 (0.5)	76	1.4	<0.1
bluegill	<i>Lepomis macrochirus</i>	1,337	118.3 (1.1)	34,589	8.2	3.9
bluespotted sunfish	<i>Enneacanthus gloriosus</i>	24	2.1 (0.1)	39	0.1	<0.1
bowfin	<i>Amia calva</i>	285	25.2 (0.4)	314,553	1.8	35.7
brook silverside	<i>Labidesthes sicculus</i>	107	9.5 (0.2)	203	0.7	<0.1
brown bullhead	<i>Ameiurus nebulosus</i>	12	1.1 (<0.1)	4,010	0.1	0.5
chain pickerel	<i>Esox niger</i>	10	0.9 (<0.1)	1,989	0.1	0.2
channel catfish	<i>Ictalurus punctatus</i>	2	0.2 (<0.1)	45	<0.1	<0.1
coastal shiner	<i>Notropis petersoni</i>	896	79.3 (1.5)	998	5.5	0.1
*crevalle jack	<i>Caranx hippos</i>	1	0.1 (<0.1)	1,248	<0.1	0.1
dollar sunfish	<i>Lepomis marginatus</i>	386	34.2 (0.8)	1,955	2.4	0.2
Eastern mosquitofish	<i>Gambusia holbrooki</i>	7,011	620.4 (17)	2,056	43.1	0.2
Everglades pygmy sunfish	<i>Elassoma evergladei</i>	1	0.1 (<0.1)	<1	<0.1	<0.1
Florida gar	<i>Lepisosteus platyrhincus</i>	412	36.5 (0.6)	170,148	2.5	19.3
golden shiner	<i>Notemigonus crysoleucas</i>	514	45.5 (1.6)	2,002	3.2	0.2
golden topminnow	<i>Fundulus chrysotus</i>	140	12.4 (0.8)	238	0.9	<0.1
*gray snapper	<i>Lutjanus griseus</i>	20	1.8 (0.1)	1,593	0.1	0.2
*hogchoker	<i>Trinectes maculatus</i>	60	5.3 (0.2)	126	0.4	<0.1
*inland silverside	<i>Menidia beryllina</i>	88	7.8 (0.6)	328	0.5	<0.1
ironcolor shiner	<i>Notropis chalybaeus</i>	27	2.4 (0.1)	34	0.2	<0.1
lake chubsucker	<i>Erimyzon sucetta</i>	94	8.3 (0.2)	35,455	0.6	4.0
largemouth bass	<i>Micropterus salmoides</i>	626	55.4 (0.6)	93,847	3.8	10.7
least killifish	<i>Heterandria formosa</i>	719	63.6 (3.5)	58	4.4	<0.1
longnose gar	<i>Lepisosteus osseus</i>	53	4.7 (0.1)	46,241	0.3	5.3
Okefenokee pygmy sunfish	<i>Elassoma okefenokee</i>	5	0.4 (<0.1)	<1	<0.1	<0.1
*pinfish	<i>Lagodon rhomboides</i>	6	0.5 (<0.1)	2	<0.1	<0.1
pirate perch	<i>Aphredoderus sayanus</i>	35	3.1 (0.1)	89	0.2	<0.1
redbreast sunfish	<i>Lepomis auritus</i>	637	56.4 (1.1)	12,415	3.9	1.4
redeer sunfish	<i>Lepomis microlophus</i>	385	34.1 (0.4)	18,527	2.4	2.1
redeye chub	<i>Notropis harperi</i>	134	11.9 (0.3)	291	0.8	<0.1
redfin pickerel	<i>Esox americanus americanus</i>	13	1.2 (<0.1)	67	0.1	<0.1
sailfin molly	<i>Poecilia latipinna</i>	127	11.2 (0.5)	142	0.8	<0.1
Seminole killifish	<i>Fundulus seminolis</i>	6	0.5 (<0.1)	105	<0.1	<0.1
*sheepshead	<i>Archosargus probatocephalus</i>	5	0.4 (<0.1)	245	<0.1	<0.1
*snook (common)	<i>Centropomus undecimalis</i>	6	0.5 (<0.1)	4,064	<0.1	0.5
*speckled worm eel	<i>Myrophis punctatus</i>	2	0.2 (<0.1)	8	<0.1	<0.1
*spot	<i>Leiostomus xanthurus</i>	23	2 (0.2)	1,570	0.1	0.2
spotted sunfish	<i>Lepomis punctatus</i>	1,153	102 (1.1)	29,663	7.1	3.4
*striped mullet	<i>Mugil cephalus</i>	138	12.2 (0.4)	58,270	0.8	6.6
swamp darter	<i>Etheostoma fusiforme</i>	36	3.2 (0.1)	8	0.2	<0.1
tadpole madtom	<i>Noturus gyrinus</i>	3	0.3 (<0.1)	4	<0.1	<0.1
taillight shiner	<i>Notropis maculatus</i>	13	1.2 (0.1)	16	0.1	<0.1
*tarpon	<i>Megalops atlanticus</i>	1	0.1 (<0.1)	NM	<0.1	NM
threadfin shad	<i>Dorosoma petenense</i>	5	0.4 (<0.1)	48	<0.1	<0.1

*tidewater mojarra	<i>Eucinostomus harengulus</i>	52	4.6 (0.2)	2,730	0.3	0.3
**vermiculated sailfin catfish	<i>Pterygoplichthys disjunctivus</i>	5	0.4 (<0.1)	4,728	<0.1	0.5
**walking catfish	<i>Clarias batrachus</i>	1	0.1 (<0.1)	81	<0.1	<0.1
warmouth	<i>Lepomis gulosus</i>	325	28.8 (0.5)	10,606	2.0	1.2
white catfish	<i>Ameiurus catus</i>	12	1.1 (<0.1)	10,811	0.1	1.2
yellow bullhead	<i>Ameiurus natalis</i>	36	3.2 (0.2)	7,767	0.2	0.9
Total:		16,277	1440.4 (21.0)	879,888		

Table 14. Number of fish collected, biomass, CPUD-km, species richness, Shannon index, and evenness index for fish species collected by electrofishing on the Withlacoochee River, per segment, during the 3 spring sampling events (2016, 2017, and 2018). CPUD = catch per unit distance (individuals/kilometer), SE = standard error, and FW = only freshwater fish species included.

	<b>Lower</b>	<b>Middle</b>	<b>Upper</b>	<b>Total</b>
<b>Number Fish collected</b>	1,610	5,174	9,493	16,277
<b>Biomass (grams)</b>	229,250	321,083	329,555	879,888
<b>CPUD-km (SE)</b>	412.8 (4.6)	1,398.3 (15.7)	2,565.7 (57.1)	1,440.4 (21.0)
<b>Species Richness</b>	35 (21 FW)	37	37	54
<b>Shannon Index</b>	2.6 (2.0 FW)	2.4	1.9	2.4
<b>Evenness Index</b>	0.73 (0.63 FW)	0.67	0.54	0.59



Table 15. Abundance, relative abundance, weight (grams), and percent composition by number and weight of fish species collected by electrofishing on the Withlacoochee River during the 3 spring sampling events (2016, 2017, and 2018) divided by river segment. # = number, CPUD = catch per unit distance (individuals/kilometer), SE = standard error, Wt. = weight in grams, % Comp. = percent composition, \* = marine species, \*\* = non-native species, and NM = not measured.

Common Name	Lower Withlacoochee River					Middle Withlacoochee River					Upper Withlacoochee River				
	Fish/km		Wt. (g)	% Comp.		Fish/km		Wt. (g)	% Comp.		Fish/km		Wt. (g)	% Comp.	
	#	CPUD (SE)		#	Wt.	#	CPUD (SE)		#	Wt.	#	CPUD (SE)		#	Wt.
*American eel	16	4.1 (0.1)	3,835	1.0	1.7	-	-	-	-	-	-	-	-	-	-
*Atlantic needlefish	5	1.3 (0.1)	100	0.3	<0.1	-	-	-	-	-	-	-	-	-	-
black crappie	-	-	-	-	-	12	3.2 (0.2)	354	0.2	0.1	19	5.1 (0.2)	262	0.2	0.1
**blue tilapia	-	-	-	-	-	-	-	-	-	-	1	0.3 (<0.1)	1,237	<0.1	0.4
bluefin killifish	1	0.3 (<0.1)	<1	0.1	<0.1	99	26.8 (1.1)	40	1.9	<0.1	122	33.0 (1.2)	36	1.3	<0.1
bluegill	372	95.4 (1.9)	8,118	23.1	3.5	544	147.0 (2.2)	16,594	10.5	5.2	421	113.8 (1.7)	9,877	4.4	3.0
bluespotted sunfish	-	-	-	-	-	3	0.8 (<0.1)	<1	0.1	<0.1	21	5.7 (0.2)	39	0.2	<0.1
bowfin	27	6.9 (0.1)	52,591	1.7	22.9	108	29.2 (0.9)	112,280	2.1	35.0	150	40.5 (0.9)	149,682	1.6	45.4
brook silverside	44	11.3 (0.4)	96	2.7	<0.1	34	9.2 (0.2)	73	0.7	<0.1	29	7.8 (0.3)	34	0.3	<0.1
brown bullhead	4	1.0 (0.1)	236	0.2	0.1	3	0.8 (<0.1)	677	0.1	0.2	5	1.4 (<0.1)	3,097	0.1	0.9
chain pickerel	2	0.5 (<0.1)	833	0.1	0.4	5	1.4 (<0.1)	1,086	0.1	0.3	3	0.8 (<0.1)	70	<0.1	<0.1
channel catfish	-	-	-	-	-	-	-	-	-	-	2	0.5 (<0.1)	45	<0.1	<0.1
coastal shiner	56	14.4 (1.2)	67	3.5	<0.1	454	122.7 (2.4)	586	8.8	0.2	386	104.3 (3.5)	345	4.1	0.1
*crevalle jack	1	0.3 (<0.1)	1,248	0.1	0.5	-	-	-	-	-	-	-	-	-	-
dollar sunfish	4	1.0 (<0.1)	10	0.2	<0.1	121	32.7 (0.8)	575	2.3	0.2	261	70.5 (2.1)	1,370	2.7	0.4
Eastern mosquitofish	25	6.4 (0.3)	6	1.6	<0.1	1741	470.5 (12.8)	563	33.6	0.2	5245	1,417.6 (47.7)	1,487	55.3	0.5
Everglades pygmy sunfish	-	-	-	-	-	-	-	-	-	-	1	0.3 (<0.1)	<1	<0.1	<0.1
Florida gar	50	12.8 (0.5)	34,864	3.1	15.2	183	49.5 (1.3)	74,305	3.5	23.1	179	48.4 (1.2)	60,979	1.9	18.5
golden shiner	-	-	-	-	-	48	13.0 (0.5)	1,142	0.9	0.4	466	126.0 (4.5)	860	4.9	0.3
golden topminnow	-	-	-	-	-	7	1.9 (0.1)	8	0.1	<0.1	133	36.0 (2.6)	230	1.4	0.1
*gray snapper	20	5.1 (0.2)	1,593	1.2	0.7	-	-	-	-	-	-	-	-	-	-
*hogchoker	60	15.4 (0.5)	126	3.7	0.1	-	-	-	-	-	-	-	-	-	-
*inland silverside	88	22.6 (1.8)	328	5.5	0.1	-	-	-	-	-	-	-	-	-	-
ironcolor shiner	-	-	-	-	-	27	7.3 (0.4)	34	0.5	<0.1	-	-	-	-	-
lake chubsucker	-	-	-	-	-	57	15.4 (0.4)	22,006	1.1	6.9	37	10.0 (0.4)	13,449	0.4	4.1
largemouth bass	69	17.7 (0.3)	22,825	4.3	10.0	267	72.2 (0.9)	35,941	5.2	11.2	290	78.4 (1.3)	35,081	3.1	10.6
least killifish	-	-	-	-	-	60	16.2 (0.7)	4	1.2	<0.1	659	178.1 (10.6)	54	6.9	<0.1

Table 15. Continued.



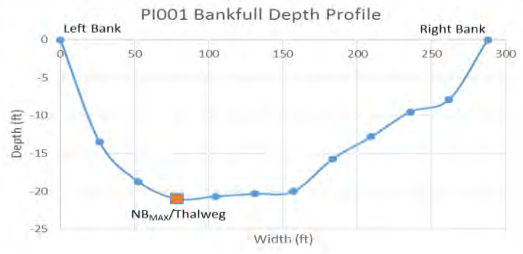
	Lower Withlacoochee River					Middle Withlacoochee River					Upper Withlacoochee River				
	Fish/km		% Comp.			Fish/km		% Comp.			Fish/km		% Comp.		
Common Name	#	CPUD (SE)	Wt. (g)	#	Wt.	#	CPUD (SE)	Wt. (g)	#	Wt.	#	CPUD (SE)	Wt. (g)	#	Wt.
longnose gar	10	2.6 (<0.1)	15,249	0.6	6.7	15	4.1 (0.2)	8,341	0.3	2.6	28	7.6 (0.2)	22,651	0.3	6.9
Okefenokee pygmy sunfish	-	-	-	-	-	4	1.1 (<0.1)	<1	0.1	<0.1	1	0.3 (<0.1)	<1	<0.1	<0.1
*pinfish	6	1.5 (<0.1)	2	0.4	<0.1	-	-	-	-	-	-	-	-	-	-
pirate perch	-	-	-	-	-	23	6.2 (0.2)	68	0.4	<0.1	12	3.2 (0.1)	21	0.1	<0.1
redbreast sunfish	125	32.1 (0.6)	2,541	7.8	1.1	310	83.8 (2.9)	6,311	6.0	2.0	202	54.6 (1.3)	3,563	2.1	1.1
redeer sunfish	69	17.7 (0.3)	2,514	4.3	1.1	186	50.3 (1.0)	9,855	3.6	3.1	130	35.1 (0.5)	6,158	1.4	1.9
redestye chub	-	-	-	-	-	78	21.1 (0.8)	145	1.5	<0.1	56	15.1 (0.6)	146	0.6	<0.1
redfin pickerel	1	0.3 (<0.1)	2	0.1	<0.1	8	2.2 (0.1)	58	0.2	<0.1	4	1.1 (<0.1)	7	<0.1	<0.1
sailfin molly	-	-	-	-	-	18	4.9 (0.2)	27	0.3	<0.1	109	29.5 (1.4)	115	1.1	<0.1
Seminole killifish	-	-	-	-	-	6	1.6 (0.1)	105	0.1	<0.1	-	-	-	-	-
*sheepshead	5	1.3 (<0.1)	245	0.3	0.1	-	-	-	-	-	-	-	-	-	-
*snook (common)	6	1.5 (0.1)	4,064	0.4	1.8	-	-	-	-	-	-	-	-	-	-
*speckled worm eel	2	0.5 (<0.1)	8	0.1	<0.1	-	-	-	-	-	-	-	-	-	-
*spot	23	5.9 (0.6)	1,570	1.4	0.7	-	-	-	-	-	-	-	-	-	-
spotted sunfish	310	79.5 (1.4)	9,644	19.3	4.2	558	150.8 (2.3)	12,440	10.8	3.9	285	77.0 (1.5)	7,579	3.0	2.3
*striped mullet	138	35.4 (0.9)	58,270	8.6	25.4	-	-	-	-	-	-	-	-	-	-
swamp darter	-	-	-	-	-	17	4.6 (0.3)	5	0.3	<0.1	19	5.1 (0.2)	3	0.2	<0.1
tadpole madtom	-	-	-	-	-	1	0.3 (<0.1)	<1	<0.1	<0.1	2	0.5 (<0.1)	4	<0.1	<0.1
taillight shiner	-	-	-	-	-	4	1.1 (<0.1)	2	0.1	<0.1	9	2.4 (0.2)	14	0.1	<0.1
*tarpon	1	0.3 (<0.1)	NM	0.1	NM	-	-	-	-	-	-	-	-	-	-
threadfin shad	3	0.8 (<0.1)	47	0.2	<0.1	2	0.5 (<0.1)	1	<0.1	<0.1	-	-	-	-	-
*tidewater mojarra	52	13.3 (0.7)	2,730	3.2	1.2	-	-	-	-	-	-	-	-	-	-
**vermiculated sailfin catfish	1	0.3 (<0.1)	1,289	0.1	0.6	2	0.5 (<0.1)	2,098	<0.1	0.7	2	0.5 (<0.1)	1,341	<0.1	0.4
**walking catfish	-	-	-	-	-	-	-	-	-	-	1	0.3 (<0.1)	81	<0.1	<0.1
warmouth	9	2.3 (<0.1)	98	0.6	<0.1	130	35.1 (0.7)	5,752	2.5	1.8	186	50.3 (1.2)	4,756	2.0	1.4
white catfish	3	0.8 (<0.1)	4,065	0.2	1.8	7	1.9 (0.1)	4,292	0.1	1.3	2	0.5 (<0.1)	2,454	<0.1	0.7
yellow bullhead	1	0.3 (<0.1)	24	0.1	<0.1	28	7.6 (0.7)	5,315	0.5	1.7	7	1.9 (<0.1)	2,428	0.1	0.7
Total:	1,610	412.8 (4.6)	229,250			5,174	1,398.4 (15.7)	54,815			9,485	2,565.7 (57.1)	329,555		



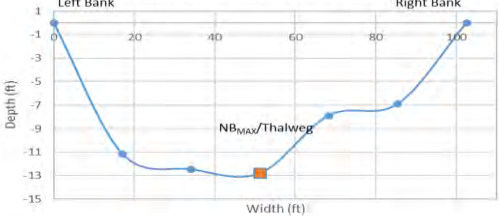
Table 16. Presence/absence fish collection data for the Withlacoochee River. FMNH = Florida Museum of Natural History, \* = marine species, \*\* = non-native species, and NS = collected during non-standard fish sampling.

Common Name	Scientific Name	FMNH 1931-1976	FWC 1984-1988	FWC 2016-2018
*American eel	<i>Anguilla rostrata</i>		X	X
*Atlantic needlefish	<i>Strongylura marina</i>	X	X	X
bay anchovy	<i>Anchoa mitchilli</i>		X	X (NS)
black crappie	<i>Pomoxis nigromaculatus</i>		X	X
blackbanded darter	<i>Percina nigrofasciata</i>		X	
**blue tilapia	<i>Oreochromis aurea</i>			X
bluefin killifish	<i>Lucania goodei</i>	X	X	X
bluegill	<i>Lepomis macrochirus</i>	X	X	X
bluespotted sunfish	<i>Enneacanthus gloriosus</i>	X	X	X
bowfin	<i>Amia calva</i>		X	X
brook silverside	<i>Labidesthes sicculus</i>	X	X	X
brown bullhead	<i>Ameiurus nebulosus</i>		X	X
brown hoplo	<i>Hoplosternum littorale</i>			X (NS)
chain pickerel	<i>Esox niger</i>		X	X
channel catfish	<i>Ictalurus punctatus</i>		X	X
coastal shiner	<i>Notropis petersoni</i>	X	X	X
*crevalle jack	<i>Caranx hippos</i>			X
dollar sunfish	<i>Lepomis marginatus</i>	X	X	X
Eastern mosquitofish	<i>Gambusia holbrooki</i>	X	X	X
Everglades pygmy sunfish	<i>Elassoma evergladei</i>	X	X	X
flagfish	<i>Jordanella floridae</i>	X	X	
Florida gar	<i>Lepisosteus platyrhincus</i>		X	X
gizzard shad	<i>Dorosoma cepedianum</i>		X	
golden shiner	<i>Notemigonus crysoleucas</i>	X	X	X
golden topminnow	<i>Fundulus chrysotus</i>	X	X	X
*gray snapper	<i>Lutjanus griseus</i>			X
*hogchoker	<i>Trinectes maculatus</i>	X	X	X
*inland silverside	<i>Menidia beryllina</i>	X		X
ironcolor shiner	<i>Notropis chalybaeus</i>	X		X
lake chubsucker	<i>Erimyzon sucetta</i>	X	X	X
largemouth bass	<i>Micropterus salmoides</i>	X	X	X
least killifish	<i>Heterandria formosa</i>	X	X	X
lined topminnow	<i>Fundulus lineolatus</i>			
longnose gar	<i>Lepisosteus osseus</i>		X	X
metallic shiner	<i>Pteronotropis metallicus</i>	X		
Okefenokee pygmy sunfish	<i>Elassoma okefenokee</i>	X		X
*pinfish	<i>Lagodon rhomboides</i>			X
pirate perch	<i>Aphredoderus sayanus</i>	X	X	X
pugnose minnow	<i>Opsopoeodus emiliae</i>			
rainwater killifish	<i>Lucania parva</i>			
redbreast sunfish	<i>Lepomis auritus</i>	X	X	X
redear sunfish	<i>Lepomis microlophus</i>	X	X	X
redeye chub	<i>Notropis harperi</i>	X		X
redfin pickerel	<i>Esox americanus americanus</i>	X	X	X
sailfin molly	<i>Poecilia latipinna</i>	X	X	X
Seminole killifish	<i>Fundulus seminolis</i>	X	X	X
*sheepshead	<i>Archosargus probatocephalus</i>			X
*snook (common)	<i>Centropomus undecimalis</i>			X
*speckled worm eel	<i>Myrophis punctatus</i>		X	X



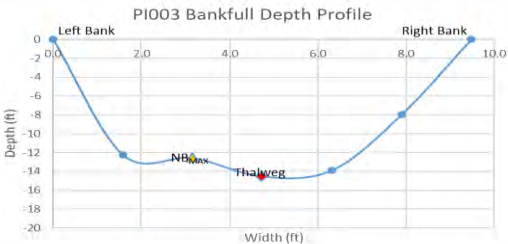
*spot	<i>Leiostomus xanthurus</i>			X
spotfin mojarra	<i>Eucinostomus argenteus</i>		X	
spotted sunfish	<i>Lepomis punctatus</i>	X	X	X
*striped mullet	<i>Mugil cephalus</i>		X	X
swamp darter	<i>Etheostoma fusiforme</i>	X	X	X
tadpole madtom	<i>Noturus gyrinus</i>	X	X	X
taillight shiner	<i>Notropis maculatus</i>		X	X
*tarpon	<i>Megalops atlanticus</i>			X
threadfin shad	<i>Dorosoma petenense</i>		X	X
*tidewater mojarra	<i>Eucinostomus harengulus</i>			X
**vermiculated sailfin catfish	<i>Pterygoplichthys disjunctivus</i>			X
**walking catfish	<i>Clarias batrachus</i>			X
warmouth	<i>Lepomis gulosus</i>	X	X	X
white catfish	<i>Ameiurus catus</i>		X	X
yellow bullhead	<i>Ameiurus natalis</i>		X	X
Total:		31	44	56



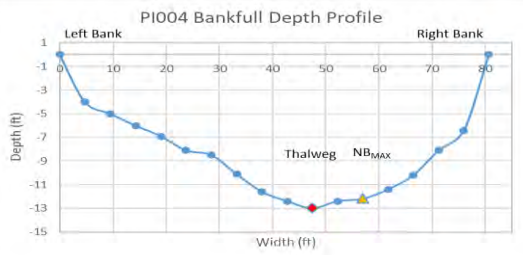
Appendix A. Peace River Watershed impairment site summaries.

Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.08903 Longitude: -81.98089			County: Desoto Site Number: PI001 Reach Length: 492 ft. Landowner: David Gutierrez
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (20.48)	0.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	*Present	1.5	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy Clay
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Residential
Notes: *Drainage ditch from agricultural area; Loose material at toe of bank from recent erosion; 303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue), Chlorophyll-A			
Restoration Option 1			



Peace River			Severity Scale: 2.0-Low
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.08989 Longitude: -81.97868			County: Desoto Site Number: PI002 Reach Length: 330 ft. Landowner: Kitty Gail Coleman
			
Risk Factor	Ranking	Score	<div> PI002 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (13.66)	0	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	10 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>2.0</b>	
			Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy Clay
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Residential
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue), Chlorophyll-A			
Restoration Option 1			

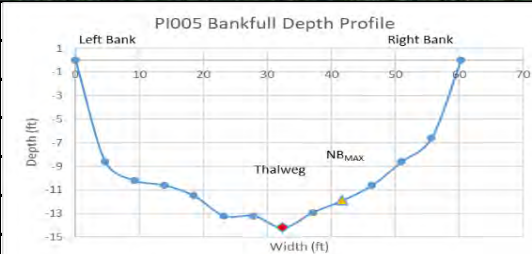




Peace River			Severity Scale: 1.0-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.11975 Longitude: -81.95080			County: Desoto Site Number: PI003 Reach Length: 345 ft. Landowner: CSX Transportation Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (11.44)	0	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>1.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			
Restoration Option 2			

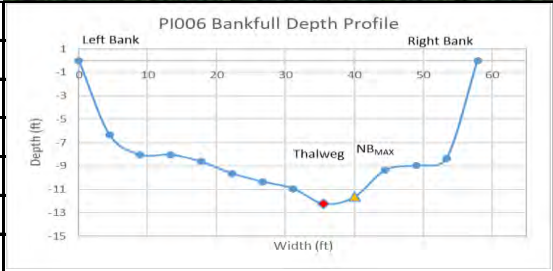
Horse Creek			Severity Scale: 1.5-Low	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.10447 Longitude: -81.98413			County: Desoto Site Number: PI004 Reach Length: 154 ft. Landowner: State of Florida (TIITF)	
 				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (25.33)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		1.5		
Notes: 303d: NA				
Restoration Option 1				



Horse Creek			Severity Scale: 3.75-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.10904 Longitude: -81.98753			County: Desoto Site Number: PI005 Reach Length: 147 ft. Landowner: Patricia Eaton
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.76)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Residential LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.75</b>	
Notes: 303d: Impaired - Public Water Supply (BOD, DO)			
Restoration Option 2			



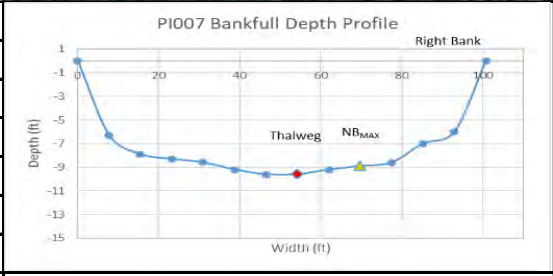




Horse Creek			Severity Scale: 2.75-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.10988 Longitude: -81.98820			County: Desoto Site Number: PI006 Reach Length: 315 ft. Landowner: Jean Stephens
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Non-eroding	0	
BEHI:	Moderate (22.01)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		2.75	
Notes: 303d: Impaired - Public Water Supply (BOD, DO)			
Restoration Option 2			

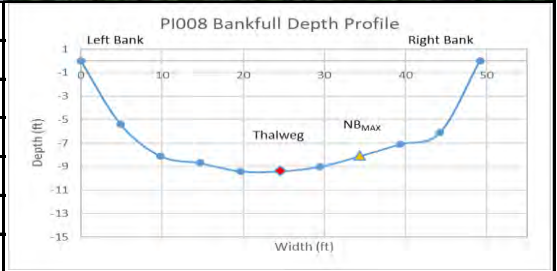


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Residential
LB Landuse: Natural Forest





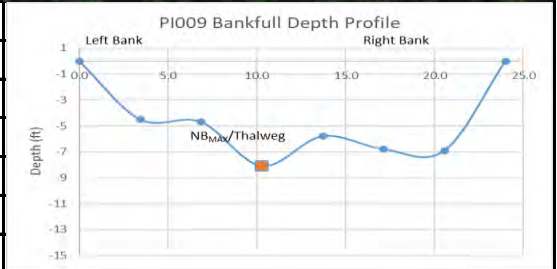
Horse Creek			Severity Scale: 2.25-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.11130 Longitude: -81.98770			County: Desoto Site Number: PI007 Reach Length: 740 ft. Landowner: TIITF/Children & Families
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (20.44)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.25</b>	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Residential LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (BOD, DO)			
Restoration Option 1			

Horse Creek			Severity Scale: 2.25-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.11645 Longitude: -81.98770			County: Desoto Site Number: PI008 Reach Length: 275 ft. Landowner: TIITF/State of Florida
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.66)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		2.25	
Notes: Cattle access; Property of Frank V. Desguin ends near river bank; 303d: Impaired - Public Water Supply (BOD, DO)			
Restoration Option 2 or 3			





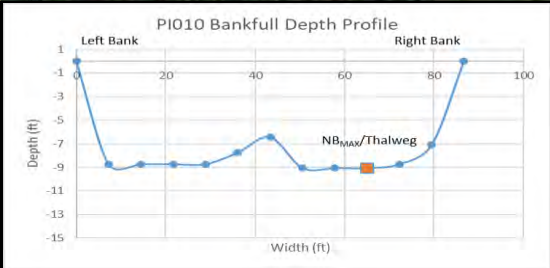
Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	Low
RB Landuse:	Agriculture, Natural Forest
LB Landuse:	Natural Forest



Limestone Creek			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Limestone Creek Latitude: 27.37881 Longitude: -81.84332			County: Hardee Site Number: PI009 Reach Length: 45 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.43)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		2.5	
Notes: Cattle access; 303d: Impaired - Aquatic Life Harvesting (DO)			
Restoration Option 1			

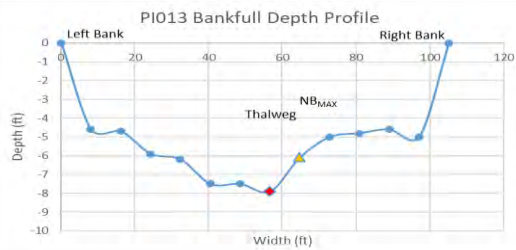


Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand/Silt/Limestone
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Natural Forest





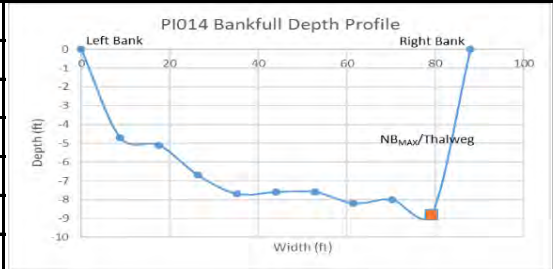
Peace River			Severity Scale: 2.25-Low	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.37642 Longitude: -81.84036			County: Hardee Site Number: PI010 Reach Length: 392 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (20.66)	0.5		
Local NPSP:	No evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		2.25		
Additional Site Features				
Stream Channel Woody Material: Infrequent				
Impoundments: None				
Substrate Composition: Medium Sand				
Bank Material: Sand				
Near Bank Stress: High				
RB Landuse: Natural Forest, Pasture				
LB Landuse: Natural Forest				
Notes: Light cattle access (historic) which has recently been fenced out; 303d: Impaired - Aquatic				
Life Harvesting (mercury in fish tissue)				
Restoration Option 2 or 3				

Peace River			Severity Scale: 2.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.36948 Longitude: -81.83217			County: Hardee Site Number: PI013 Reach Length: 44 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Historic	0.5	
BEHI:	Moderate (29.38)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Pasture
<b>Severity Scale:</b>		<b>2.0</b>	LB Landuse: Natural Forest
Notes: Campsite w/fire pit, possible cattle access; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			





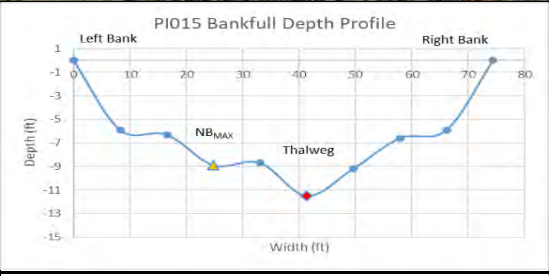




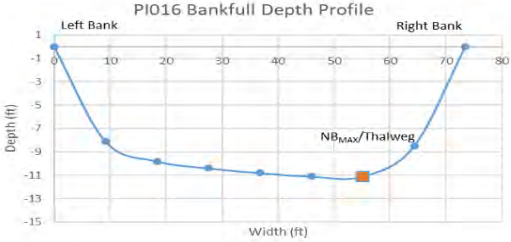
Peace River			Severity Scale: 2.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.36709 Longitude: -81.83198			County: Hardee Site Number: PI014 Reach Length: 110 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.04)	0.5	
Local NPSP:	No evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.0</b>	
Notes: Farm road approx. 200 ft. behind river bank; Cattle access; Mostly grass with sparse trees; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





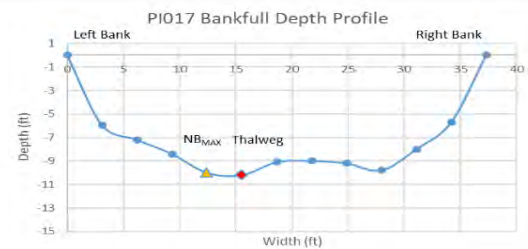
Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	Very High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Natural Forest



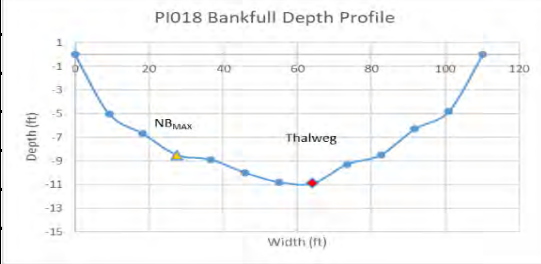


Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.36376 Longitude: -81.82900			County: Hardee Site Number: PI015 Reach Length: 58 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (39.33)	1	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.5	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand, Gravel Near Bank Stress: Low RB Landuse: Natural Forest LB Landuse: Pasture, Natural Forest
Notes: Cattle access; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



Peace River			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.35073 Longitude: -81.82693			County: Hardee Site Number: PI016 Reach Length: 403 ft. Landowner: Limestone Ranch LLC
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (42.96)	1.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand, Small Gravel
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

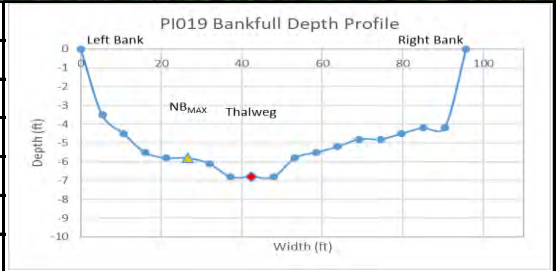


Peace River			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.34867 Longitude: -81.82478			County: Hardee Site Number: PI017 Reach Length: 160 ft. Landowner: Glen O. Douglas
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.52)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.5</b>	
			
			Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Fine Sand/Silt
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Pasture
Notes: Recreational use area w/picnic pavilion; Cattle access; Water input at downstream end of site; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.34691 Longitude: -81.82620			County: Hardee Site Number: PI018 Reach Length: 59 ft. Landowner: IMC - Agrico Company
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (42.46)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Recreation, Natural Forest
Notes: Upstream of Gardner public boat ramp; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2 or 3			

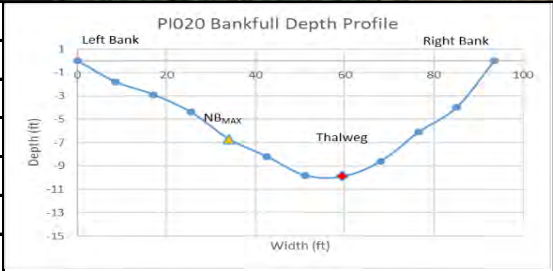


Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.30452 Longitude: -81.84046			County: Desoto Site Number: PI019 Reach Length: 461 ft. Landowner: Mildred Rosenthal
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.66)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: Cattle fence along bank with cattle access; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand/Silt
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest
LB Landuse: Pasture, Natural Forest

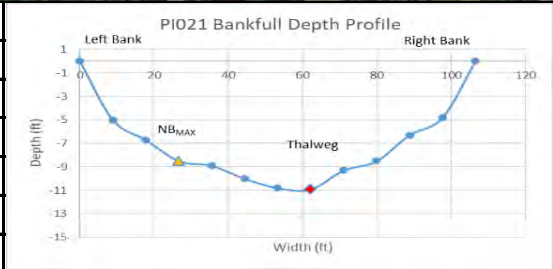
Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.34329 Longitude: -81.82555			County: Hardee Site Number: PI020 Reach Length: 28 ft. Landowner: Peace River Outpost Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Extreme (48.05)	1.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: Gardner Peace River Outpost takeout point; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2			





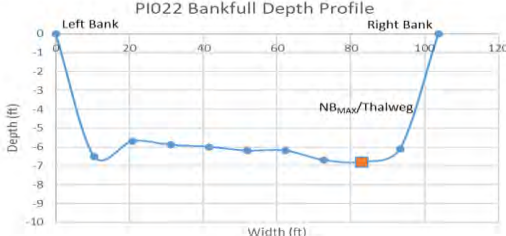
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand/Silt
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Recreation

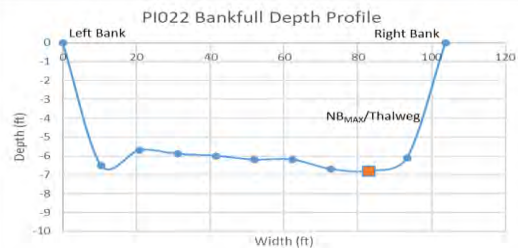




Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.34623 Longitude: -81.82635			County: Hardee Site Number: PI021 Reach Length: 93 ft. Landowner: Peace River Outpost Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (42.32)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.5</b>	
Notes: Gardner public boat ramp; unpaved road leading to boat launch is contributing a high sediment input, we estimated 96.3 C. Y. per rain event, 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2			

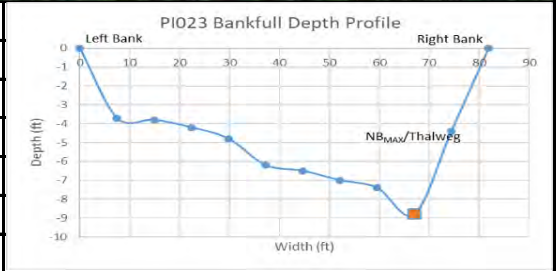


Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Recreation, Natural Forest

Peace River			Severity Scale: 5.75-Moderate	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38539 Longitude: -81.84366			County: Hardee Site Number: PI022 Reach Length: 195 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (20.54)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	Additional Site Features	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale: 5.75			Bank Material: Sand/Silt/Clay	
			Near Bank Stress: High	
			RB Landuse: Pasture	
			LB Landuse: Pasture, Natural Forest	
Notes: Low lying pasture in floodplain with cattle access; Bank material very cohesive;				
303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				





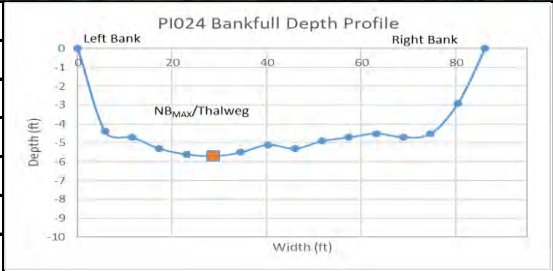
Peace River			Severity Scale: 7.5-High
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38657 Longitude: -81.84378			County: Hardee Site Number: PI023 Reach Length: 550 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (41.32)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		7.5	
Notes: Cattle access; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture

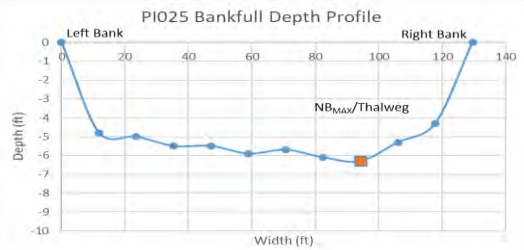


Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38770 Longitude: -81.84354			County: Hardee Site Number: PI024 Reach Length: 380 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (42.44)	1.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		6.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





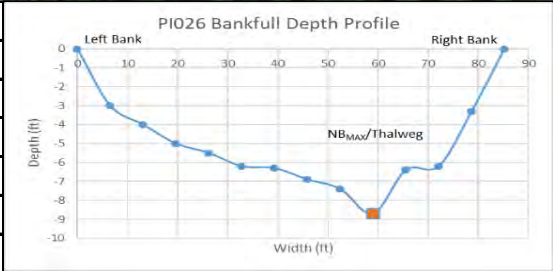
Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Natural Forest, Pasture

Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38840 Longitude: -81.84299			County: Hardee Site Number: PI025 Reach Length: 456 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (26.32)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Clay Near Bank Stress: High RB Landuse: Pasture LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: Cattle access; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





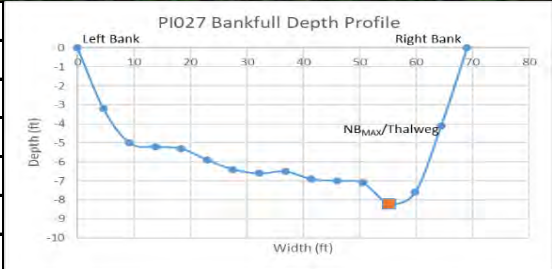


Peace River			Severity Scale: 7.5-High
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39195 Longitude: -81.84711			County: Hardee Site Number: PI026 Reach Length: 272 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (40.81)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.5</b>	
Notes: Cattle access; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

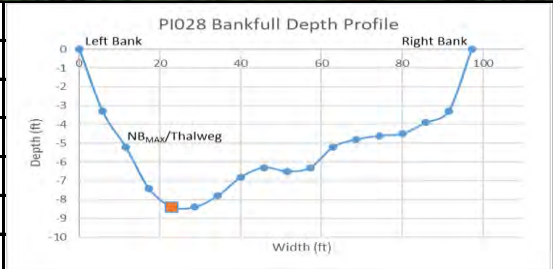
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39242 Longitude: -81.84794			County: Hardee Site Number: PI027 Reach Length: 117 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (28.39)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.25	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue).			
Restoration Option 1			





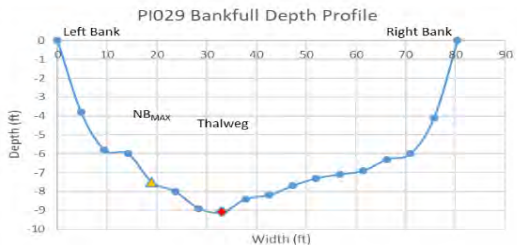
Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest





Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39366 Longitude: -81.84698			County: Hardee Site Number: PI028 Reach Length: 295 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (32.71)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	75 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		6.75	
Notes: Intact forested riparian buffer; 303d: Impaired - Aquatic Life Harvesting (mercury in fish mercury in fish tissue)			
Restoration Option 1			

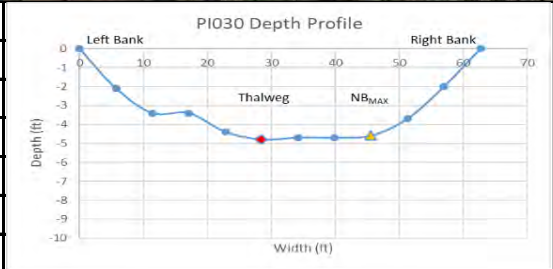


Additional Site Features	
Stream Channel Woody Material:	Extensive
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture
LB Landuse:	Natural Forest, Pasture

Peace River			Severity Scale: 5.5-Moderate	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39568 Longitude: -81.84643			County: Hardee Site Number: PI029 Reach Length: 182 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (35.73)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
<b>Severity Scale:</b>		<b>5.5</b>		
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in Fish tissue)				
Restoration Option 1				





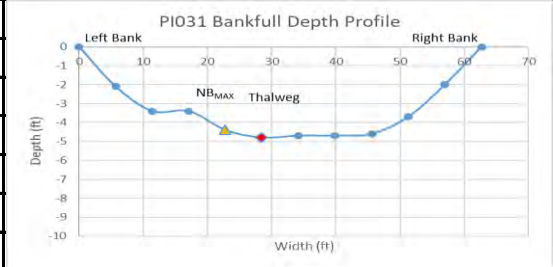
Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Lake Hancock Latitude: 27.92479 Longitude: -81.82983			County: Polk Site Number: PI030 Reach Length: 108 ft. Landowner: J K Stuart Properties LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	Old Channelization	0.5	
Bank Erosion:	Active	1	
BEHI:	Extreme (47.85)	1.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>7.0</b>	
Notes: Right bank near constructed wetland from Lake Hancock; 303d: Impaired - Aquatic Life Harvesting (Chlorofyll-A, DO, fecal coliform)			
Restoration Option 2			





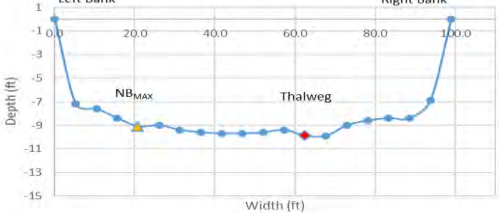
Additional Site Features
Stream Channel Woody Material: None
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand/Silt
Near Bank Stress: Low
RB Landuse: Transportation
LB Landuse: Transportation





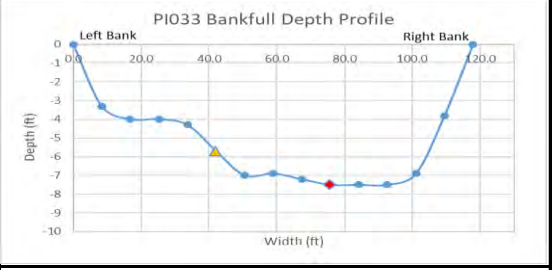
Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Lake Hancock Latitude: 27.92479 Longitude: -81.82983			County: Polk Site Number: PI031 Reach Length: 108 ft. Landowner: J K Stuart Properties LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	Old Channelization	0.5	
Bank Erosion:	Active	1	
BEHI:	Very High (44.46)	1.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>7.0</b>	
Notes: Left bank near constructed wetland from Lake Hancock; 303d: Impaired - Aquatic Life Harvesting (Chlorofyll-A, DO, fecal coliform)			
Restoration Option 2			





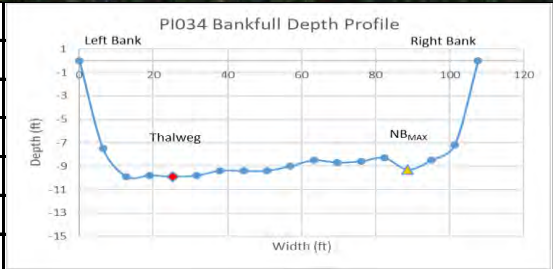
Additional Site Features
Stream Channel Woody Material: None
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand/Silt
Near Bank Stress: Moderate
RB Landuse: Transportation
LB Landuse: Transportation

Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.30298 Longitude: -81.84171			County: Desoto Site Number: PI032 Reach Length: 270 ft Landowner: Mildred Rosenthal
 			
Risk Factor	Ranking	Score	<div> PI032 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (38.49)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in Fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Natural Forest
Restoration Option 1			





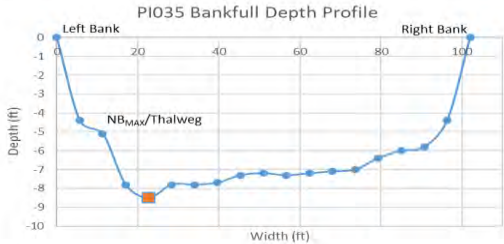
Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.29677 Longitude: -81.84797			County: Desoto Site Number: PI033 Reach Length: 34 ft. Landowner: Desoto County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.15)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	15 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.0	
Notes: Fishing access at Brownville Park; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			Stream Channel Woody Material: None
Restoration Option 2 or 3			Impoundments: None
			Substrate Composition: Sand, Gravel, Bedrock
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Recreational Use, Natural Forest

Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.28503 Longitude: -81.85720			County: Desoto Site Number: PI034 Reach Length: 140 ft. Landowner: Rose Mary Peters
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Historic	0.5	
BEHI:	High (30.63)	1	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.0</b>	
Notes: House at top of bank; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1 or 2			



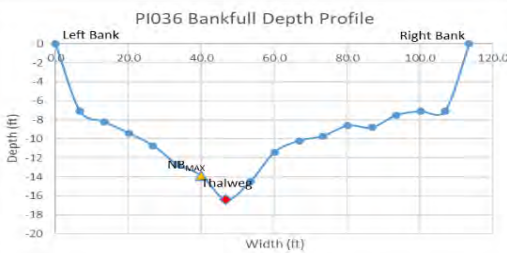




Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Residential
LB Landuse: Natural Forest

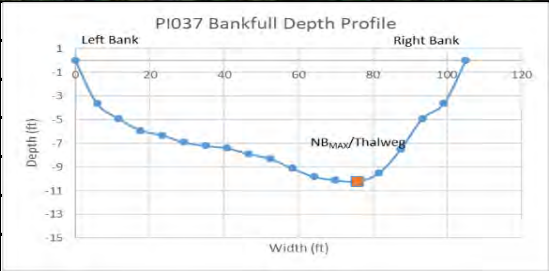


Peace River			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.28351 Longitude: -81.85602			County: Desoto Site Number: PI035 Reach Length: 95 ft. Landowner: Larry & Wendy Vinson	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (29.73)	0.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand	
Severity Scale:		3.25	Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest	
			LB Landuse: Pasture, Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in Fish tissue)				
Restoration Option 1				



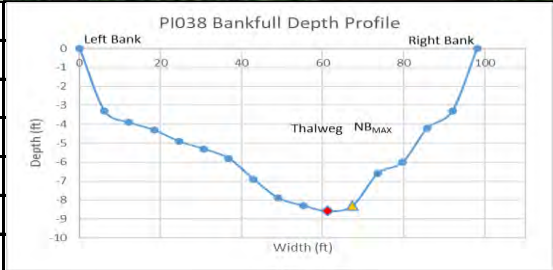




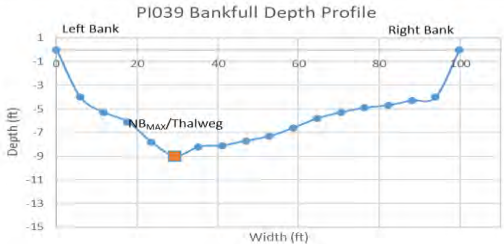
Peace River			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.26983 Longitude: -81.85934			County: Desoto Site Number: PI036 Reach Length: 55 ft. Landowner: Colleen Hyre	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Very High (41.19)	1.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	Additional Site Features	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Infrequent	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand	
Severity Scale:		3.25	Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				

Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.26996 Longitude: -81.86546			County: Desoto Site Number: PI037 Reach Length: 65 ft. Landowner: Fort Desoto LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.64)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Pasture, Natural Forest LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



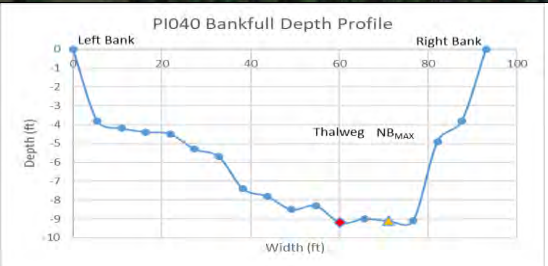






Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.26735 Longitude: -81.86597			County: Desoto Site Number: PI038 Reach Length: 410 ft. Landowner: Charlotte Bragg
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (43.25)	1.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	100 ft	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.5	
			<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Recreational, Natural Forest LB Landuse: Natural Forest
Notes: Canoe outpost-looks like historic pasture; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			

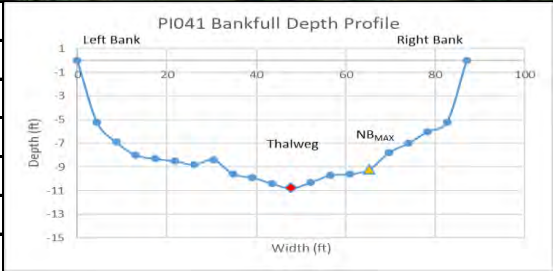
Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.25678 Longitude: -81.87133			County: Desoto Site Number: PI039 Reach Length: 65 ft. Landowner: Dana & Kathy Simonson
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (41.78)	1.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Historic Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





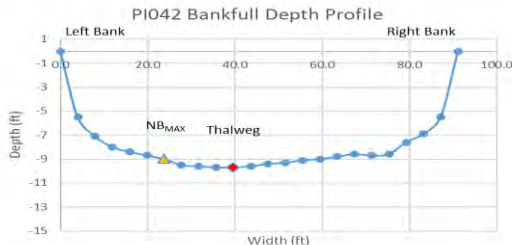
Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.25682 Longitude: -81.87214			County: Desoto Site Number: PI040 Reach Length: 85 ft. Landowner: Elmer & Nancy Mott
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (40.34)	1.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.25</b>	
			
			Additional Site Features
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Historic Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



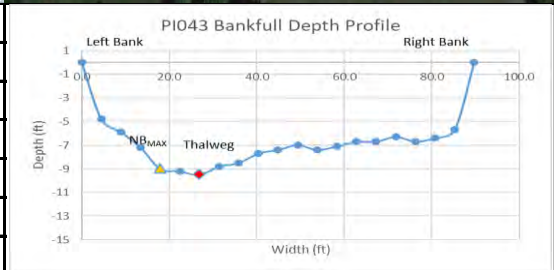


Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.25590 Longitude: -81.87400			County: Desoto Site Number: PI041 Reach Length: 430 ft. Landowner: Constructora Limonar Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (36.36)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





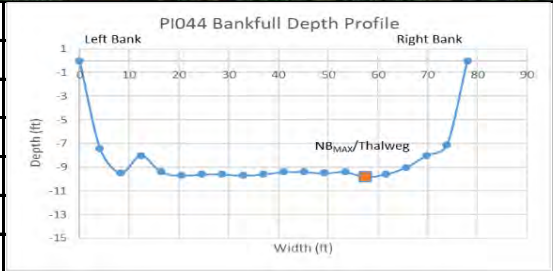
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture
LB Landuse: Natural Forest

Peace River			Severity Scale: 1.75-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.25273 Longitude: -81.87607			County: Desoto Site Number: PI042 Reach Length: 160 ft. Landowner: Peace River Wildlife Sanct.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (28.16)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		1.75		
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest LB Landuse: Natural Forest	
Restoration Option 1				



Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.25214 Longitude: -81.87852			County: Desoto Site Number: PI043 Reach Length: 145 ft. Landowner: Peace River Wildlife Sanct.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (25.8)	0.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.75		
			Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest	
			LB Landuse: Pasture, Natural Forest	
Notes: Three separate sites within reach - South site worked up; 303d: Impaired - Aquatic Life				
Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				

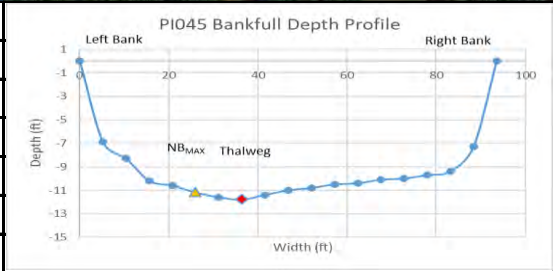


Peace River			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.25112 Longitude: -81.88039			County: Desoto Site Number: PI044 Reach Length: 76 ft. Landowner: Constructora Limonar LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (25.6)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





Additional Site Features	
Stream Channel Woody Material:	Moderate
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Reclaimed Field, Natural Forest

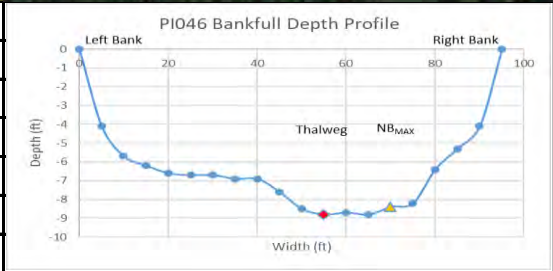
Peace River			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.24943 Longitude: -81.87923			County: Desoto Site Number: PI045 Reach Length: 225 ft. Landowner: Zalmon Sherwood
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (36.23)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.75	
Notes: Cattle field on left bank with fence; No riparian zone (a few trees); 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture

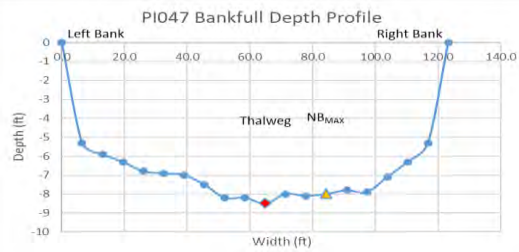


Peace River			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.24745 Longitude: -81.88279			County: Desoto Site Number: PI046 Reach Length: 150 ft. Landowner: Constructora Limonar LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (31.38)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		2.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





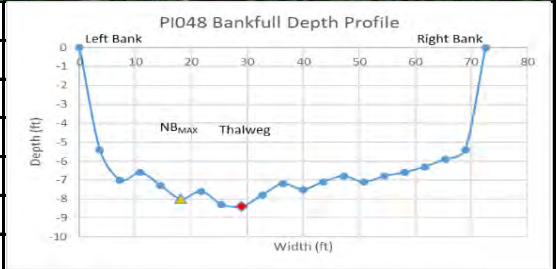
Additional Site Features	
Stream Channel Woody Material: Moderate	
Impoundments: None	
Substrate Composition: Medium Sand	
Bank Material: Sand	
Near Bank Stress: Moderate	
RB Landuse: Natural Forest	
LB Landuse: Natural Forest	

Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.23230 Longitude: -81.88788			County: Desoto Site Number: PI047 Reach Length: 200 ft. Landowner: Four Marnan Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (29.35)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Transportation LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	70 ft.	0.25	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: Unpaved road nearby; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





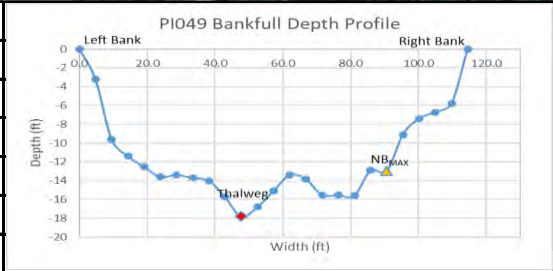


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.22673 Longitude: -81.88287			County: Desoto Site Number: PI048 Reach Length: 550 ft. Landowner: Desoto County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Extreme (46.88)	1.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	25 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	None	0.75	
Severity Scale:		6.25	
Notes: Bank appears to have been rebuilt. Pipe protruding from bank feeds wetland/stream at flood stage; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





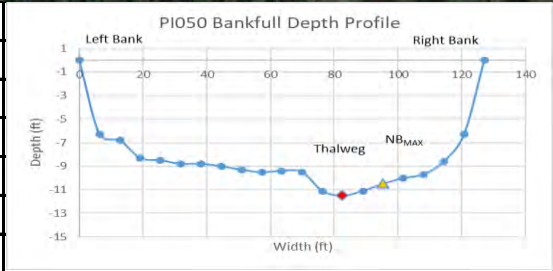
Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	Moderate
RB Landuse:	Recreational, Natural Forest
LB Landuse:	Natural Forest, Recreational

Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.22636 Longitude: -81.88464			County: Desoto Site Number: PI049 Reach Length: 70 ft. Landowner: George & Jonica Lempeneau
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (35.17)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.0	
Notes: Recreational access; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





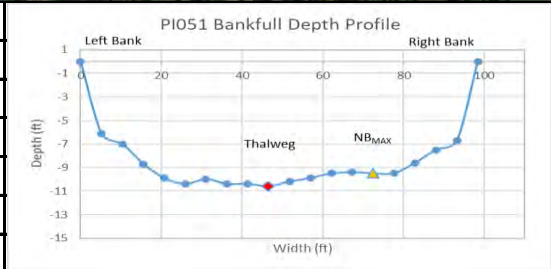
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Recreation
LB Landuse: Natural Forest

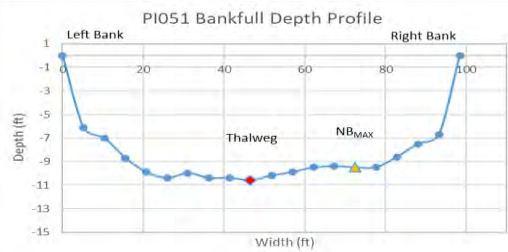
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.22506 Longitude: -81.88440			County: Desoto Site Number: PI050 Reach Length: 375 ft. Landowner: George & Jonica Lempeneau
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (33.56)	1	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



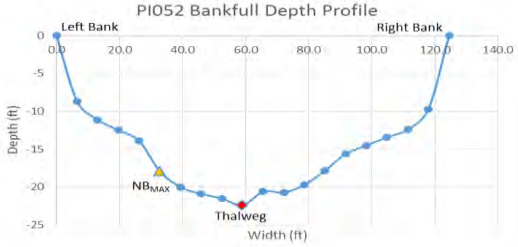


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Recreation, Natural Forest
LB Landuse: Natural Forest





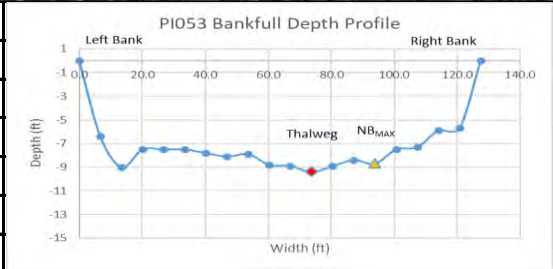
Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.22419 Longitude: -81.88117			County: Desoto Site Number: PI051 Reach Length: 191 ft. Landowner: Desoto County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.57)	0.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b>
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Infrequent
RB: Floodplain Access:	Partial	0.25	Impoundments: None
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand
<b>Severity Scale:</b>			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Recreation
			LB Landuse: Natural Forest
Notes: Boat launch at Morgan Park - Arcadia, FL; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





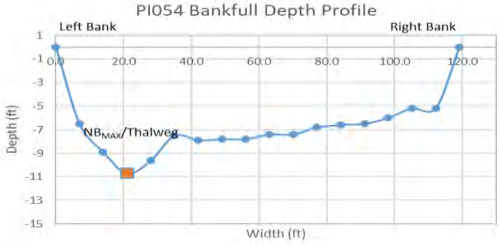
Peace River			Severity Scale: 7.5-High
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.22274 Longitude: -81.87601			County: Desoto Site Number: PI052 Reach Length: 235 ft. Landowner: Desoto County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (36.97)	1	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>7.5</b>	
			Additional Site Features
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest, Recreation
			LB Landuse: Recreation
Notes: Morgan Park walk-in access; Rip-rap and old bridge; 303d: Impaired - Aquatic Life			
Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.21470 Longitude: -81.88697			County: Desoto Site Number: PI053 Reach Length: 640 ft. Landowner: Garner Grove & Cattle Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (30.76)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.0</b>	
Notes: Pasture not currently active, but recently; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			

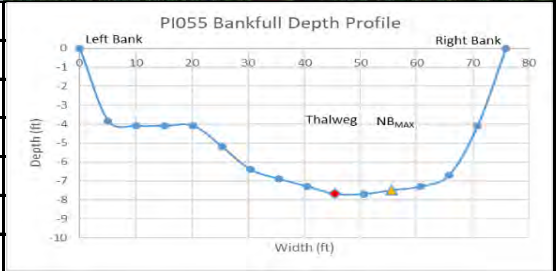


Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	Moderate
RB Landuse:	Pasture
LB Landuse:	Pasture

Peace River			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.20767 Longitude: -81.88840			County: Desoto Site Number: PI054 Reach Length: 125 ft. Landowner: Garner Grove & Cattle Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (37.78)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.75</b>	
Notes: Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture
			LB Landuse: Natural Forest
Restoration Option 1			





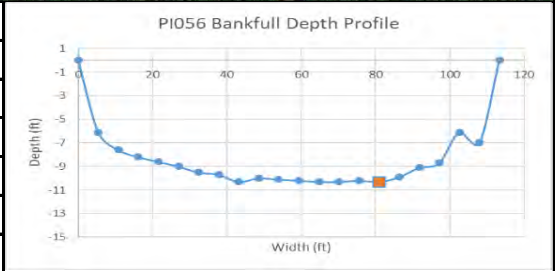
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.20633 Longitude: -81.88983			County: Desoto Site Number: PI055 Reach Length: 554 ft. Landowner: Garner Grove & Cattle Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (45.87)	1.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.75	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



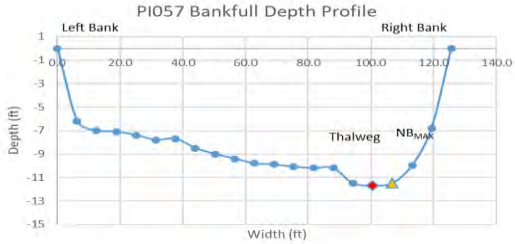


Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Natural Forest





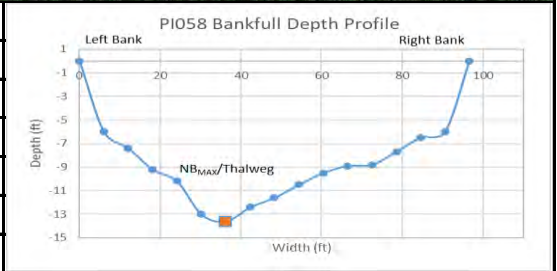
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.20123 Longitude: 81.88867			County: Desoto Site Number: PI056 Reach Length: 1,439 ft. Landowner: Geraci, D.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (39.54)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	<b>Additional Site Features</b>
Fish Passage Barrier:	None	0	Stream Channel Woody Material: Moderate
RB: Riparian Buffer:	30 ft.	0.5	Impoundments: None
LB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
RB: Floodplain Access:	Partial	0.25	Bank Material: Sand
LB: Floodplain Access:	Full	0	Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
	<b>Severity Scale:</b>	<b>6.25</b>	LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





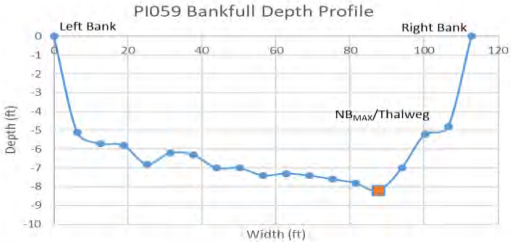
Peace River			Severity Scale: 7.75-High
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.19366 Longitude: -81.88152			County: Desoto Site Number: PI057 Reach Length: 498 ft. Landowner: Geraci, D.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (43.5)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.75</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture, Natural Forest
Notes: Cattle access on left bank, opposite from PD047; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17618 Longitude: -81.88769			County: Desoto Site Number: PI058 Reach Length: 1041 ft. Landowner: Geraci, D.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.53)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: Cattle access on opposite bank; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			

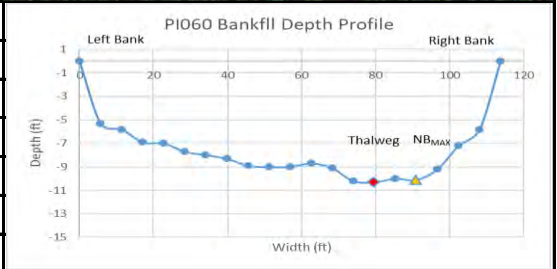


Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Rec., Pasture



Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17885 Longitude: -81.89071			County: Desoto Site Number: PI059 Reach Length: 750 ft. Landowner: Geraci, D.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.19)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Recreation, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: Cattle access; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			

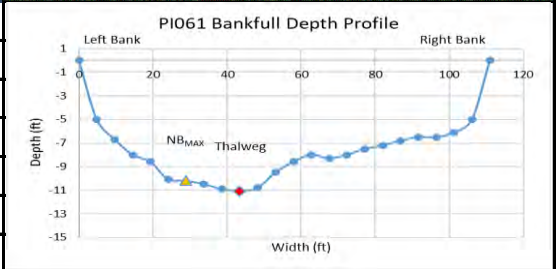


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17322 Longitude: -81.89740			County: Desoto Site Number: PI060 Reach Length: 165 ft. Landowner: Geraci, D.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.84)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.25	
Notes: Hunting property w/cattle pasture; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





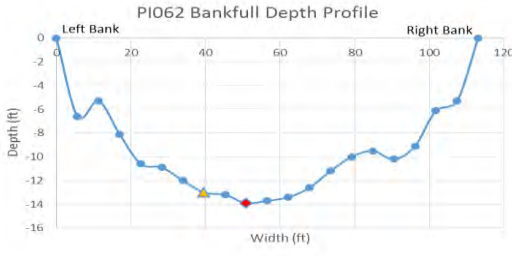
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

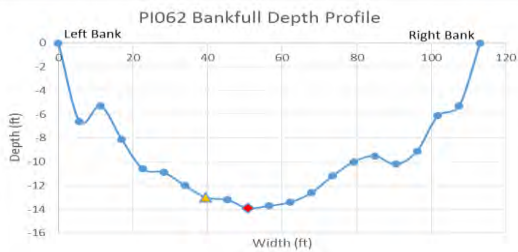
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17461 Longitude: -81.89672			County: Desoto Site Number: PI061 Reach Length: 66 ft. Landowner: Geraci, D.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.67)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: Cattle access; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			


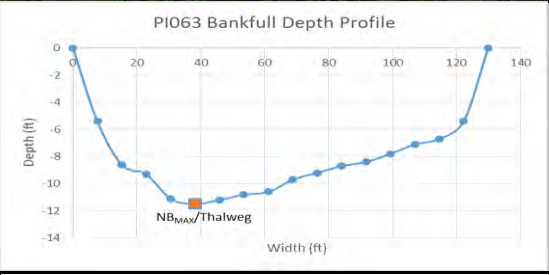


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest



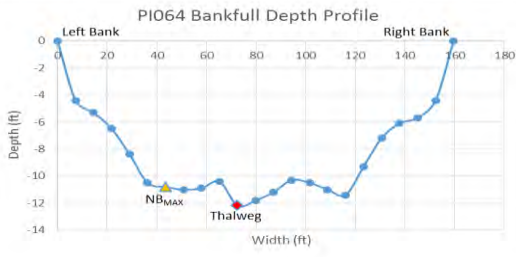


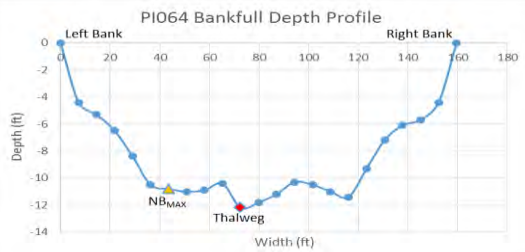
Peace River			Severity Scale: 6.25-Moderate	
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17010 Longitude: -81.89662			County: Desoto Site Number: PI062 Reach Length: 657 ft. Landowner: General Propeller Co.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (32.25)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium sand	
<b>Severity Scale:</b>			<b>6.25</b>	
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			Bank Material: Sand	
Restoration Option 1			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Pasture, Natural Forest	



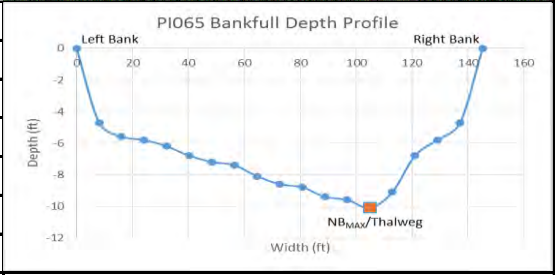


Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.16403 Longitude: -81.90125			County: Desoto Site Number: PI063 Reach Length: 81 ft. Landowner: Geraci, D.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (35.99)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Pasture
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			
Restoration Option 1			



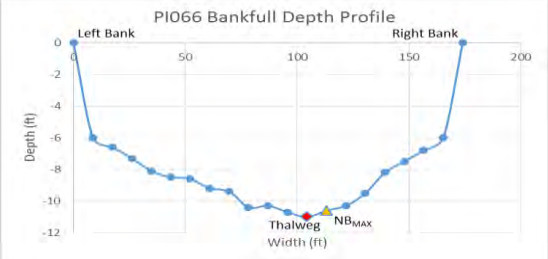




Peace River			Severity Scale: 8.75-High	
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.16215 Longitude: -81.90158			County: Desoto Site Number: PI064 Reach Length: 178.2 ft. Landowner: Desoto County	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	In Recovery	1		
Bank Erosion:	Active	1		
BEHI:	High (32.92)	1		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	Present	1.5		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b> Stream Channel Woody Material: None Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Recreation, Transportation LB Landuse: Recreation, Transportation	
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>8.75</b>		
Notes: Nocatee boat launch on right bank, used as an unpaved boat launch; 303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)				
Restoration Option 2				

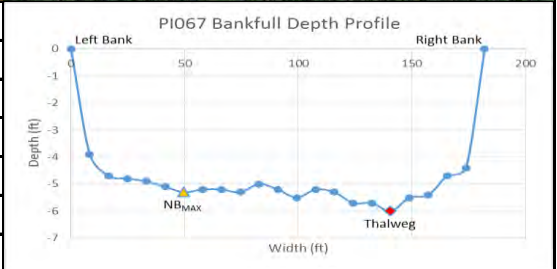


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.15611 Longitude: -81.91725			County: Desoto Site Number: PI065 Reach Length: 175 ft. Landowner: Robertson Family LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (39.26)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.25	
			
			Additional Site Features
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			
Restoration Option 1			





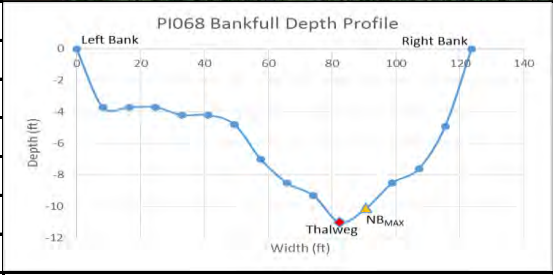
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.15584 Longitude: -81.92344			County: Desoto Site Number: PI066 Reach Length: 440 ft. Landowner: Robertson Family LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.94)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
			
			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: No cattle seen, but may have access; Old cow patties present; 303d: Impaired - Aquatic Life			
Harvesting (Mercury in Fish Tissue)			
Restoration Option 1			



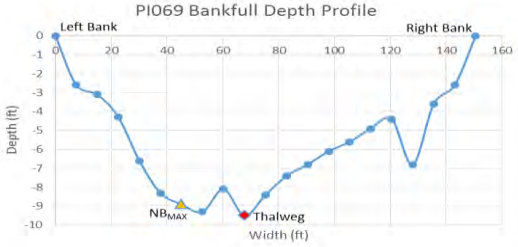
Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.14345 Longitude: -81.93594			County: Desoto Site Number: PI067 Reach Length: 153 ft. Landowner: Susie Robertson
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (32.69)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.0</b>	
Notes: Opposite bank of Johnson Lake, no cattle seen, fencing on opposite bank; 303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			
Restoration Option 2 or 3			





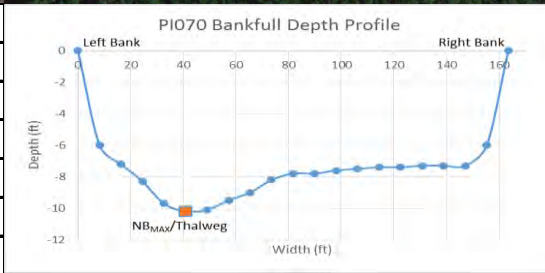
Additional Site Features
Stream Channel Woody Material: None
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture
LB Landuse: Pasture

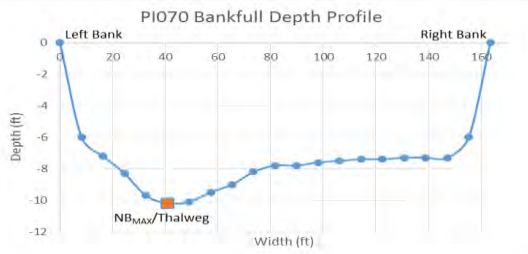




Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.14241 Longitude: -81.93697			County: Desoto Site Number: PI068 Reach Length: 643 ft. Landowner: Johnson Homestead LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (27.70)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
			
			<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			
Restoration Option 1			

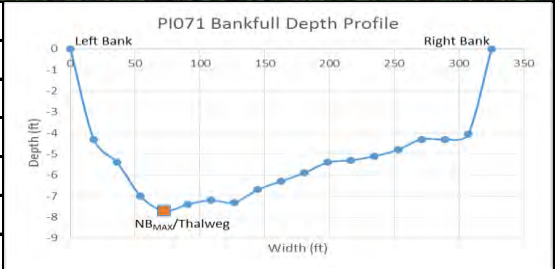
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.14044 Longitude: -81.93629			County: Desoto Site Number: PI069 Reach Length: 90 ft. Landowner: Robertson, Susie
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.80)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Clay
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Pasture
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			
Restoration Option 1			



Peace River			Severity Scale: 6.5-Moderate	
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.13609 Longitude: -81.94119			County: Desoto Site Number: PI070 Reach Length: 303 ft. Landowner: TIITF/State of Florida	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (29.06)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75		
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		6.5	Additional Site Features	
Notes: Backwater pond in pasture discharging into Peace River; 303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
Restoration Option 1			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Pasture	
			LB Landuse: Pasture	



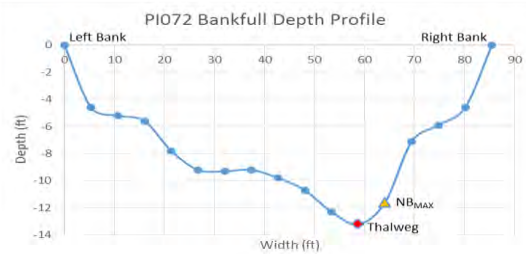




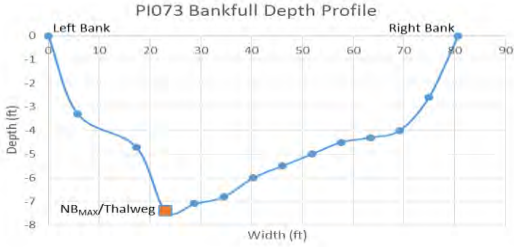
Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.13669 Longitude: -81.94493			County: Desoto Site Number: PI071 Reach Length: 343 ft. Landowner: HAU II LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (32.93)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		7.0	
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)			
Restoration Option 2 or 3			





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture
LB Landuse: Pasture

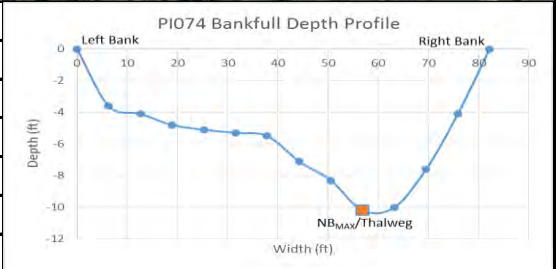


Peace River			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.13547 Longitude: -81.95009			County: Desoto Site Number: PI072 Reach Length: 520 ft. Landowner: HAU II LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (28.65)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.5	Additional Site Features	
			Stream Channel Woody Material: None	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand, sandstone	
			Near Bank Stress: High	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
303d: Impaired - Aquatic Life Harvesting (Mercury in Fish Tissue)				
Restoration Option 1, rocky areas may not be a good candidate for toewood				



Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39067 Longitude: -81.845797			County: Hardee Site Number: PI073 Reach Length: 296 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (26.0)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
Notes: Rapid assessment methods - BEHI estimated to be same as PI025; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture
			LB Landuse: Pasture
Restoration Option 1			

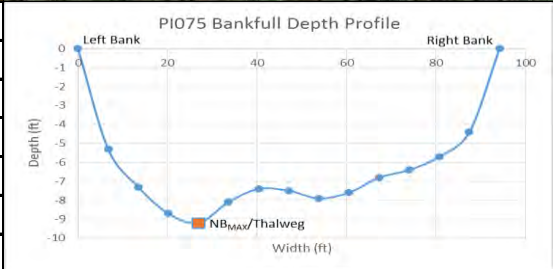


Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39314 Longitude: -81.84804			County: Hardee Site Number: PI074 Reach Length: 259 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (31.19)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture
LB Landuse: Pasture

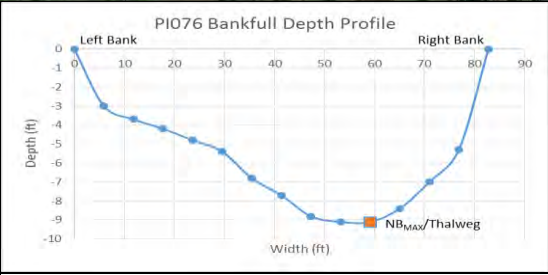
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.396511 Longitude: -81.846586			County: Hardee Site Number: PI075 Reach Length: 140 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (24.78)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





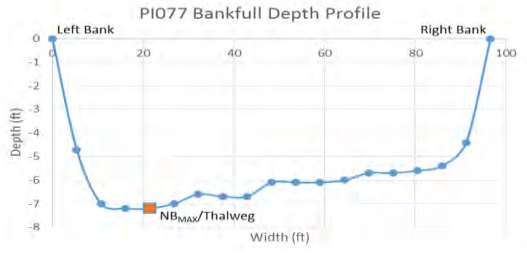
Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Pasture, Natural Forest





Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.396275 Longitude: -81.846951			County: Hardee Site Number: PI076 Reach Length: 385 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.0)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

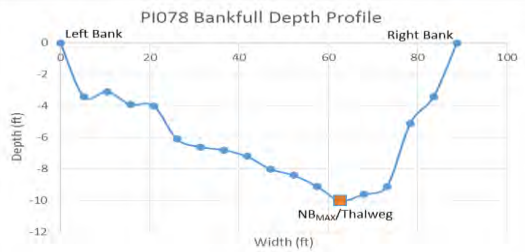




Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

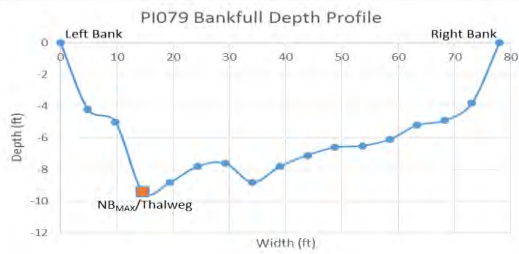
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.398490 Longitude: -81.847507			County: Hardee Site Number: PI077 Reach Length: 226.2 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (23.21)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Infrequent
Restoration Option 1			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest




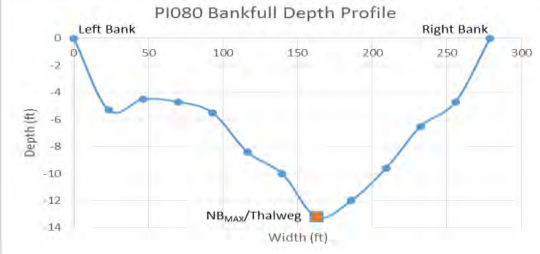
Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40155 Longitude: -81.84864			County: Hardee Site Number: PI078 Reach Length: 220 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (33.30)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



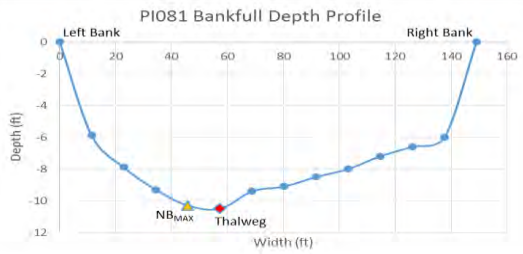


Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.401817 Longitude: -81.848028			County: Hardee Site Number: PI079 Reach Length: 550 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (30.62)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	<b>Additional Site Features</b>
Fish Passage Barrier:	None	0	Stream Channel Woody Material: Moderate
RB: Riparian Buffer:	0 ft.	0.75	Impoundments: None
LB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
RB: Floodplain Access:	Full	0	Bank Material: Sand
LB: Floodplain Access:	Full	0	Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
	<b>Severity Scale:</b>	<b>6.75</b>	LB Landuse: Pasture, Natural Forest
Notes: Floodplain wetland at site; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



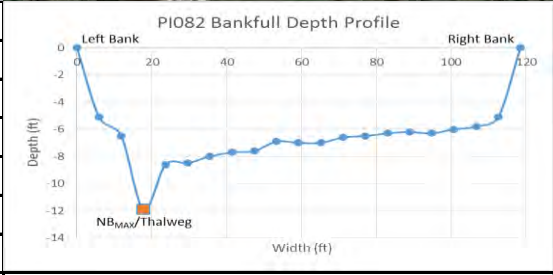




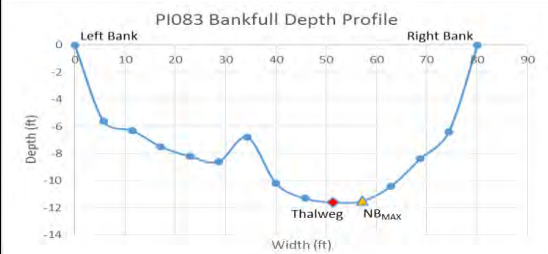


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40302 Longitude: -81.848478			County: Hardee Site Number: PI080 Reach Length: 375 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (26.43)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



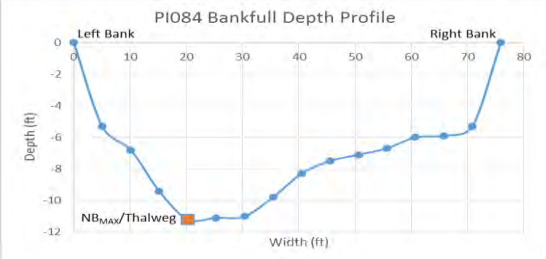
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.403325 Longitude: -81.848242			County: Hardee Site Number: PI081 Reach Length: 200 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.84)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1 or 2			





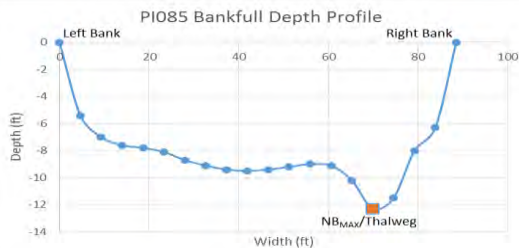
Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40534 Longitude: -81.84761			County: Hardee Site Number: PI082 Reach Length: 100 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (20.18)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
			Additional Site Features
RB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Infrequent
LB: Riparian Buffer:	40 ft.	0.5	Impoundments: None
RB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand
LB: Floodplain Access:	Full	0	Bank Material: Sandy-Clay
<b>Severity Scale:</b>			Near Bank Stress: Very High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

Peace River			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40795 Longitude: -81.848659			County: Hardee Site Number: PI083 Reach Length: 550 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (25.24)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale: 6.0			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Pasture, Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				



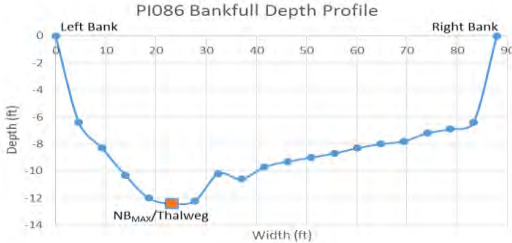




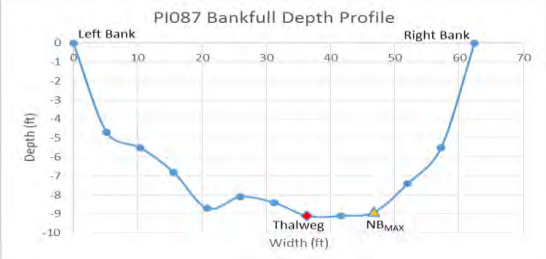
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40862 Longitude: -81.846343			County: Hardee Site Number: PI084 Reach Length: 768.1 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (27.41)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	50 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Restoration Option 1			

Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40929 Longitude: -81.846545			County: Hardee Site Number: PI085 Reach Length: 317.3 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.48)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	<b>Additional Site Features</b>
Fish Passage Barrier:	None	0	Stream Channel Woody Material: Infrequent
RB: Riparian Buffer:	40 ft.	0.5	Impoundments: None
LB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
RB: Floodplain Access:	Partial	0.25	Bank Material: Sand
LB: Floodplain Access:	Full	0	Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
	<b>Severity Scale:</b>	<b>7.0</b>	LB Landuse: Pasture, Natural Forest
Notes: Palm trees falling in water just upstream; Cattle trail above bank; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



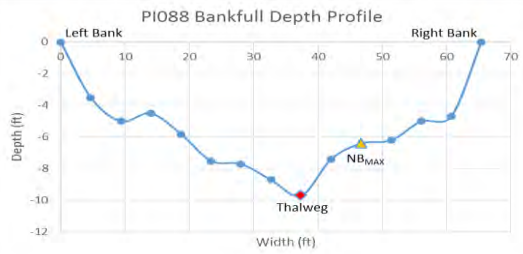




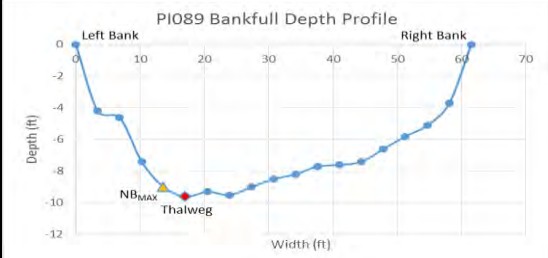


Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.410885 Longitude: -81.844543			County: Hardee Site Number: PI086 Reach Length: 827.4 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.01)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Moderate
Restoration Option 1			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest



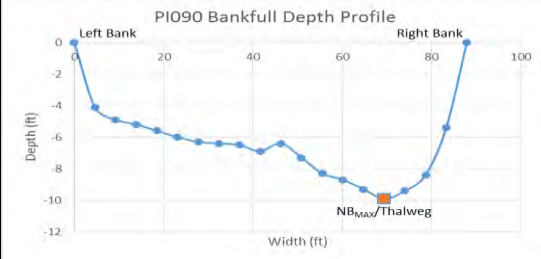
Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43001 Longitude: -81.84984			County: Hardee Site Number: PI087 Reach Length: 723 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High (40.17)	1.5		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Partial	0.25	Additional Site Features	
LB: Floodplain Access:	Full	0	Stream Channel Woody Material: Infrequent	
<b>Severity Scale: 3.75</b>			Impoundments: None	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Substrate Composition: Medium Sand	
Restoration Option 1, restoration should be done in conjunction with sites PI282-288			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest	





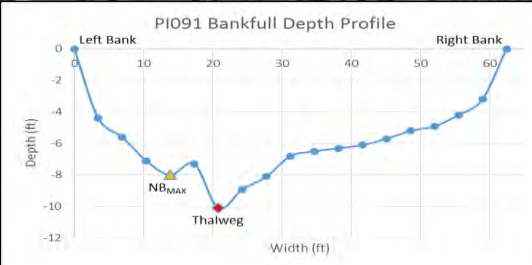
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.429581 Longitude: -81.850117			County: Hardee Site Number: PI088 Reach Length: 73 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Low (8.16)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy-Clay
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 1			

Peace River			Severity Scale: 5.75-Moderate	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43007 Longitude: -81.849297			County: Hardee Site Number: PI089 Reach Length: 200 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (26.67)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy Clay Near Bank Stress: High RB Landuse: Pasture LB Landuse: Pasture, Natural Forest	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>5.75</b>		
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				



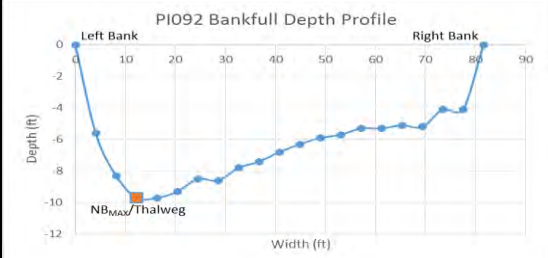




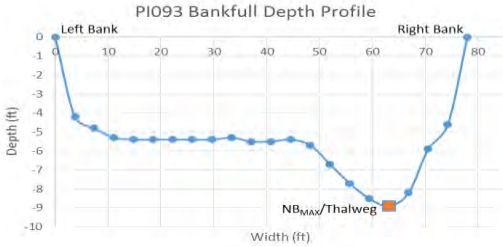
Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43086 Longitude: -81.849083			County: Hardee Site Number: PI090 Reach Length: 200 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (19.87)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy-Clay
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

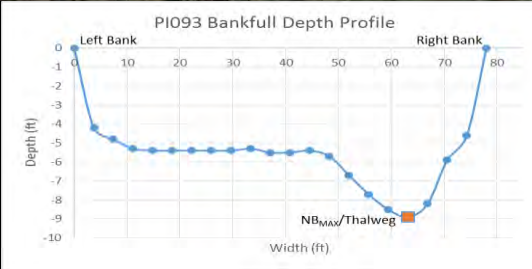
Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.431090 Longitude: -81.847609			County: Hardee Site Number: PI091 Reach Length: 230 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (12.71)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	Stream Channel Woody Material: Infrequent
LB: Floodplain Access:	Full	0	Impoundments: None
<b>Severity Scale: 5.25</b>			Substrate Composition: Medium Sand
			Bank Material: Sandy-Clay
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			







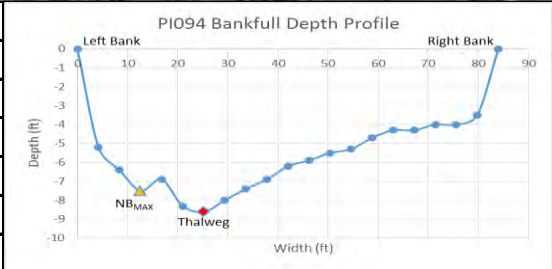
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.482316 Longitude: -81.848021			County: Hardee Site Number: PI092 Reach Length: 332 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Low (18.28)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

Peace River			Severity Scale: 5.5-Moderate	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.433157 Longitude: -81.848381			County: Hardee Site Number: PI093 Reach Length: 266 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Low (15.64)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b>	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Infrequent	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale:			5.5	Bank Material: Sandy-Clay
				Near Bank Stress: High
				RB Landuse: Pasture, Natural Forest
				LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				





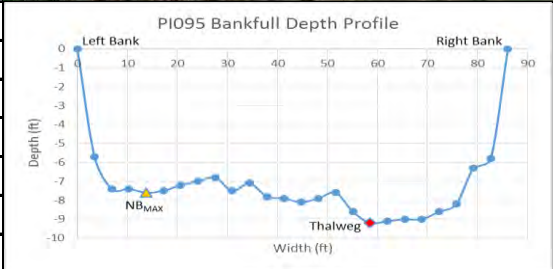


Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.433606 Longitude: -81.849187			County: Hardee Site Number: PI094 Reach Length: 147 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Low (17.56)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy-Clay
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

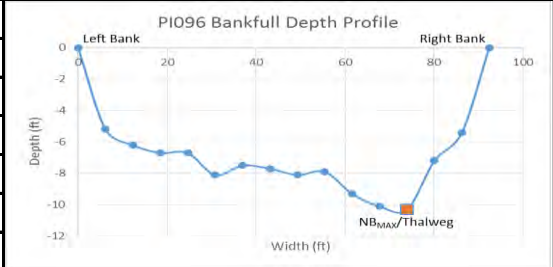
Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.434376 Longitude: -81.849653			County: Hardee Site Number: PI095 Reach Length: 58 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Low (4.65)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





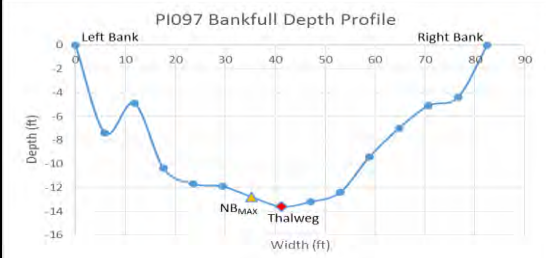
Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sandy-Clay
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Pasture, Natural Forest





Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.434398 Longitude: -81.850457			County: Hardee Site Number: PI096 Reach Length: 155 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Low (10.72)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

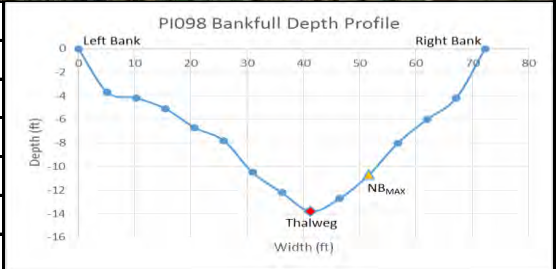


Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest



Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43524 Longitude: -81.850408			County: Hardee Site Number: PI097 Reach Length: 175 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Low (15.07)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy-Clay Near Bank Stress: Moderate RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

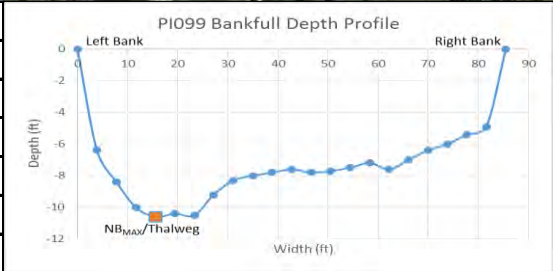


Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43618 Longitude: -81.851181			County: Hardee Site Number: PI098 Reach Length: 360 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (32.43)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

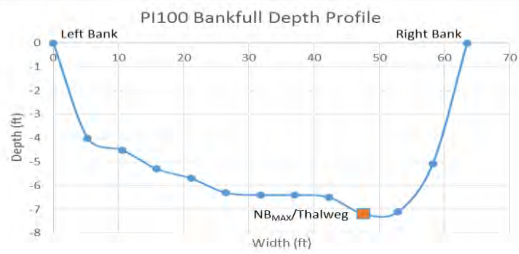
Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43765 Longitude: -81.849396			County: Hardee Site Number: PI099 Reach Length: 215 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (30.47)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



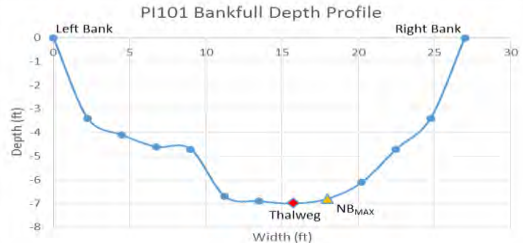


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasure, Natural Forest
LB Landuse: Pasture, Natural Forest





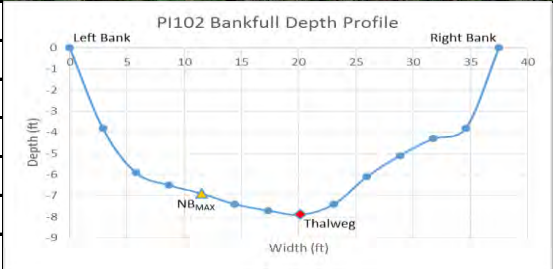
Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43953 Longitude: -81.850649			County: Hardee Site Number: PI100 Reach Length: 220 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Pasture, Natural Forest LB Landuse: Natural Forest, Pasture
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: *Rapid assessment made for BEHI score. Score calculated based on similar sites in the area; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





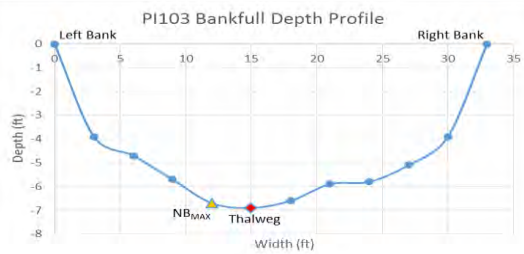
Peace River			Severity Scale: 2.0-Low
Watershed: Peace River Subwatershed: Bear Branch Latitude: 27.75824 Longitude: -81.78014			County: Polk Site Number: PI101 Reach Length: 18 ft. Landowner: Melvin Pyatt Lastinger
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.57)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (DO, fecal coliform, mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Restoration Option 1			





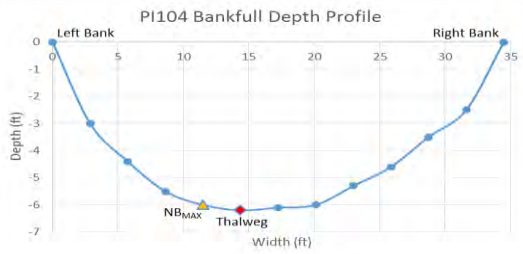
Peace River			Severity Scale: 1.75-Low
Watershed: Peace River Subwatershed: Bear Branch Latitude: 27.75553 Longitude: -81.77912			County: Polk Site Number: PI102 Reach Length: 43 ft. Landowner: L M Lanier
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (16.24)	0	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>1.75</b>	
Notes: Mowed access road with several pole barns; 303d: Impaired - Aquatic Life Harvesting (DO, fecal coliform, mercury in fish tissue)			
Restoration Option 1			





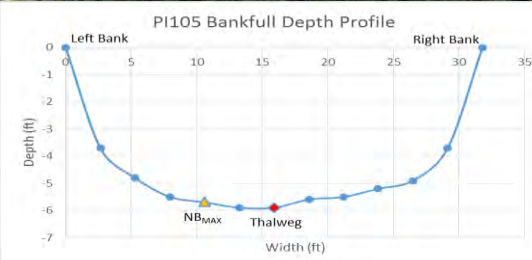
Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy-Clay
Near Bank Stress: Moderate
RB Landuse: Natural Forest
LB Landuse: Access Road, Natural Forest

Peace River			Severity Scale: 2.0-Low	
Watershed: Peace River Subwatershed: Bear Branch Latitude: 27.75451 Longitude: -81.77927			County: Polk Site Number: PI103 Reach Length: 16 ft. Landowner: Richard Truman Vaughn	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (16.92)	0		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy-Clay Near Bank Stress: Moderate RB Landuse: Natural Forest LB Landuse: Residential, Natural Forest	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		2.0		
Notes: Light recreational use with grill, benches, etc.; 303d: Impaired - Aquatic Life Harvesting (DO, fecal coliform, mercury in fish tissue)				
Restoration Option 1				





Peace River			Severity Scale: 5.0-Moderate
Watershed: Bear Branch Subwatershed: Peace River Latitude: 27.75436 Longitude: -81.77931			County: Polk Site Number: PI104 Reach Length: 155 ft. Landowner: Lusby Properties Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low*	0	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	Present	1.5	
Pipe Discharge:	Present	1.5	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.0</b>	
Notes: *Rapid assessment made for BEHI score; Score calculated based on similar sites in the area; Light recreational use at residence; 303d: Impaired - Aquatic Life Harvesting (DO, fecal coliform, mercury in fish tissue)			
Restoration Option 1			

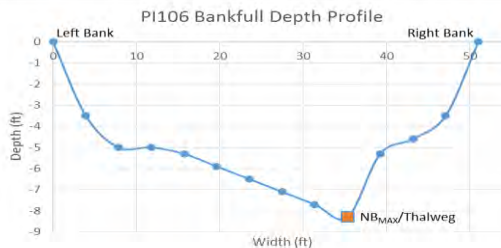
Peace River			Severity Scale: 3.75-Low
Watershed: Peace River Subwatershed: Bear Branch Latitude: 27.75331 Longitude: -81.78107			County: Polk Site Number: PI105 Reach Length: 128 ft. Landowner: Lusby Properties Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (33.22)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (DO, fecal coliform, mercury in fish tissue)			
Restoration Option 1			





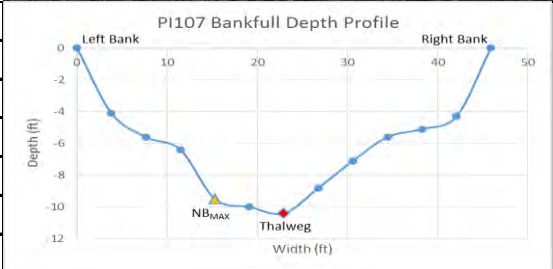
Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Residential, Natural Forest



Peace River			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Bear Branch Latitude: 27.72794 Longitude: -81.78960			County: Polk Site Number: PI106 Reach Length: 91 ft. Landowner: Charles W Graves
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (29.61)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Residential, Natural Forest LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.0</b>	
Notes: Mowed grass up to bank, residential property with a rope swing; 303d: Impaired - Aquatic Life Harvesting (DO, fecal coliform, mercury in fish tissue)			
Restoration Option 1			



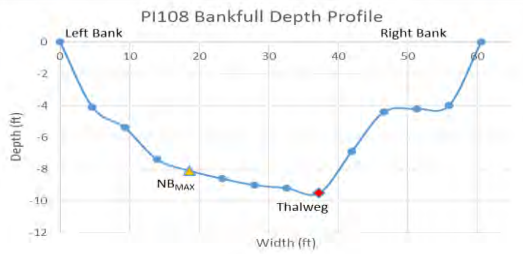




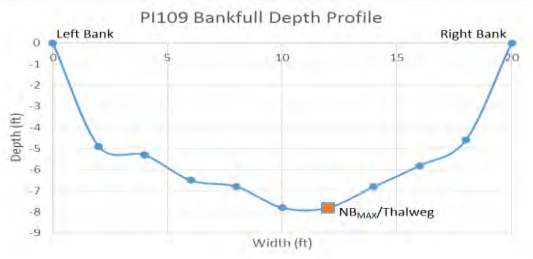
Peace River			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Bear Branch Latitude: 27.71740 Longitude: -81.79385			County: Polk Site Number: PI107 Reach Length: 122 ft. Landowner: Polk County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (24.90)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			




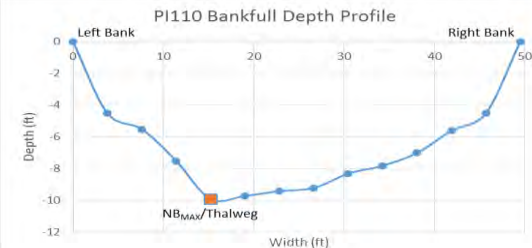
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy-Clay
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Natural Forest, Residential



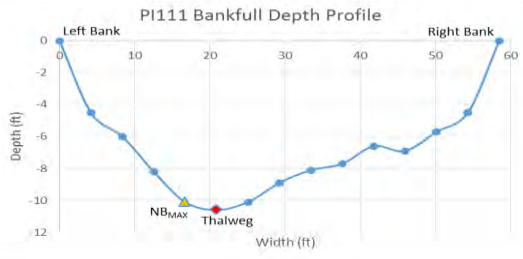


Peace River			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Bear Branch Latitude: 27.71584 Longitude: -81.79470			County: Polk Site Number: PI108 Reach Length: 40 ft. Landowner: Polk County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.22)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Recreational Use
Restoration Option 1			

Whidden Creek			Severity Scale: 2.75-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.70726 Longitude: -81.80038			County: Polk Site Number: PI109 Reach Length: 11 ft. Landowner: Florida Rangers Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (est*)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.75</b>	
			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Residential, Natural Forest
			LB Landuse: Natural Forest
Notes: *Rapid assessment made for BEHI score; Score calculated based on similar sites in the			
area; Spring backwater off main channel, Widden Creek; 303d: Impaired - DO, nutrients, TSS,			
turbidity (2002)			
Restoration Option 1			



Peace River			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.67304 Longitude: -81.80288			County: Polk Site Number: PI110 Reach Length: 53 ft. Landowner: TIITF/DEP
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (37.78)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Reclaimed Field
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.65416 Longitude: -81.79932			County: Polk Site Number: PI111 Reach Length: 47 ft. Landowner: Durrance & Sons LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (36.00)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	
Notes: Fenced off pasture approx. 40 ft. from bank with light use; 303d: Impaired - Aquatic Life			<b>Additional Site Features</b>
Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Pasture
Restoration Option 1			



# Peace River

Severity Scale: 5.75-Moderate

Watershed: Peace River

Subwatershed: Thompson Branch

Latitude: 27.64626

Longitude: -81.80226

County: Polk/Hardee

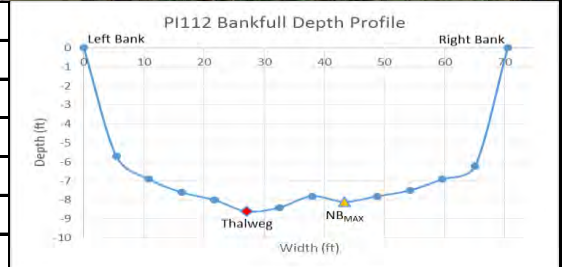
Site Number: PI112

Reach Length: 36 ft.

Landowner: Florida DOT



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	Historic	0.5
Bank Erosion:	Active	1
BEHI:	Very High (40.52)	1.5
Local NPSP:	Moderate Potential	1
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>5.75</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium sand

Bank Material: Sand



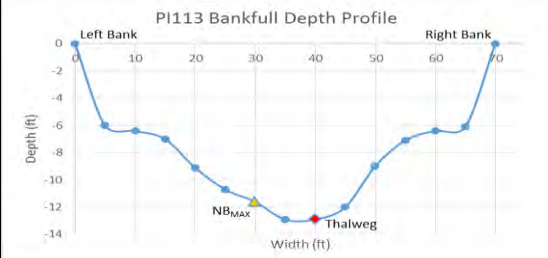
Near Bank Stress: Low

RB Landuse: Recreation



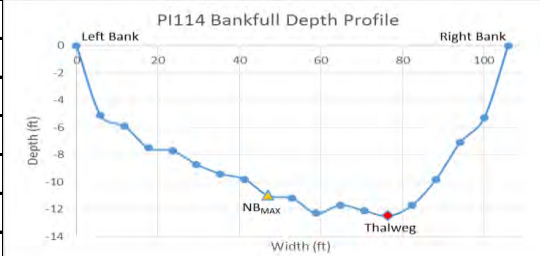
LB Landuse: Recreation

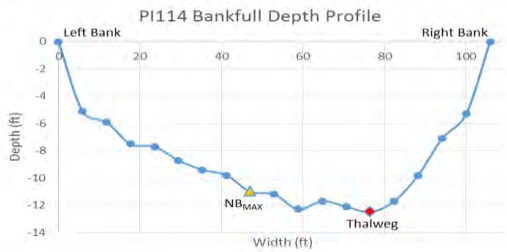
Notes: Public access point under County Line Rd. bridge; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)



Restoration Option 2

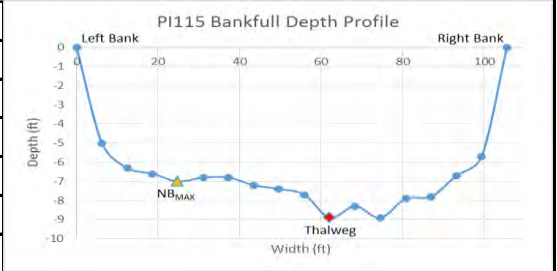
Peace River			Severity Scale: 4.5-Moderate	
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.64386 Longitude: -81.80202			County: Hardee Site Number: PI113 Reach Length: 33 ft. Landowner: Thomas F & Mary E Haffer	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (27.81)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Infrequent	
RB: Floodplain Access:	Partial	0.25	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium sand	
Severity Scale:		4.5	Bank Material: Sand	
Notes: Cattle access point; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Near Bank Stress: Low	
Restoration Option 2 or 3			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Natural Forest, Pasture	



Peace River			Severity Scale: 2.75-Low	
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.63439 Longitude: -81.80106			County: Hardee Site Number: PI114 Reach Length: 61 ft. Landowner: Mosaic Fertilizer LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (27.41)	0.5		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium sand	
<b>Severity Scale:</b>			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Pasture	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				





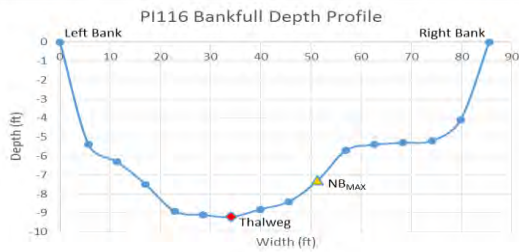
Peace River			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.63149 Longitude: -81.80100			County: Hardee Site Number: PI115 Reach Length: 97 ft. Landowner: Mosaic Fertilizer LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (22.30)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		2.5	
Notes: Island just below bankfull at site; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



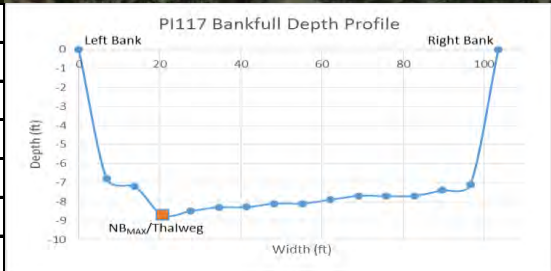


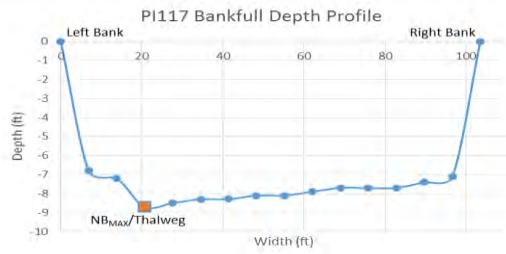
Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium sand
Bank Material:	Sand
Near Bank Stress:	Low
RB Landuse:	Natural Forest
LB Landuse:	Pasture, Natural Forest





Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.61238 Longitude: -81.79617			County: Hardee Site Number: PI116 Reach Length: 36 ft. Landowner: Bernadette Albritton
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.22)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	20 ft.	0.75	Substrate Composition: Medium sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Low
LB: Floodplain Access:	Partial	0.25	RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>4.5</b>	LB Landuse: Natural Forest
Notes: Cattle access point; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			

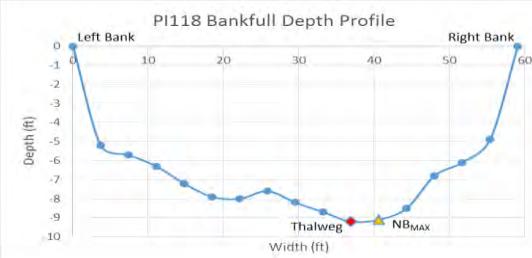


Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.60484 Longitude: -81.79549			County: Hardee Site Number: PI117 Reach Length: 63 ft. Landowner: Mosaic Fertilizer LLC
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.98)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b>
LB: Riparian Buffer:	0 ft.	0.75	Stream Channel Woody Material: Infrequent
RB: Floodplain Access:	Full	0	Impoundments: None
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium sand
<b>Severity Scale:</b>			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			





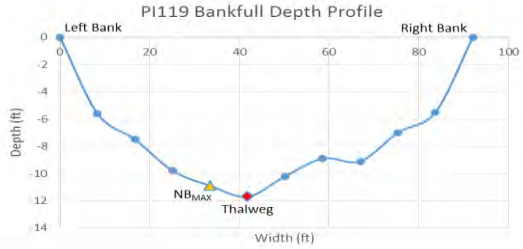




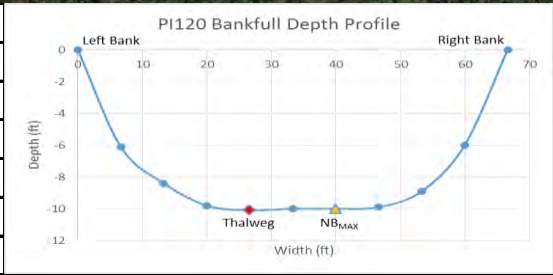
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.57612 Longitude: -81.80466			County: Hardee Site Number: PI118 Reach Length: 54 ft. Landowner: Cynthia C. Parrish
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.37)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Natural Forest

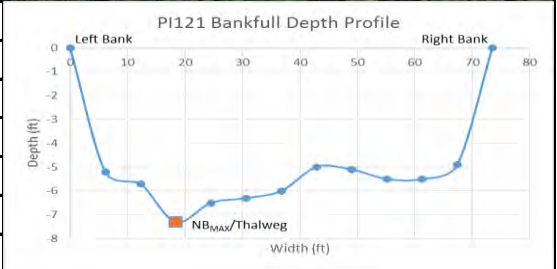


Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.55495 Longitude: -81.79050			County: Hardee Site Number: PI119 Reach Length: 20 ft. Landowner: Bagwell Plantation Florida
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.49)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 1			

Peace River			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.55145 Longitude: -81.79446			County: Hardee Site Number: PI120 Reach Length: 141 ft. Landowner: City of Wauchula	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (33.79)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Infrequent	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium sand	
<b>Severity Scale:</b>			<b>3.25</b>	
Notes: At Wauchula Riverside Park: recreation area with pavillions, benches, etc.; 303d:			Bank Material: Sand	
Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			Near Bank Stress: Low	
Restoration Option 2 or 3			RB Landuse: Recreation	
			LB Landuse: Natural Forest	



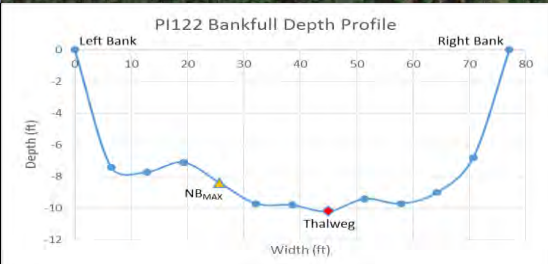




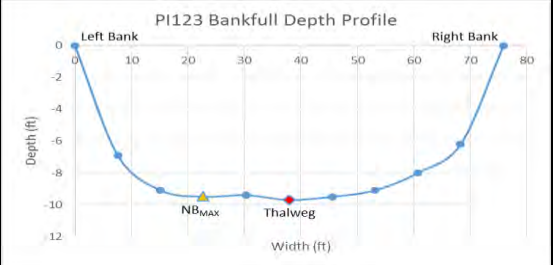
Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.54890 Longitude: -81.79136			County: Hardee Site Number: PI121 Reach Length: 558 ft. Landowner: Pamela Wiggins Garner et al
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (38.95)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		5.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





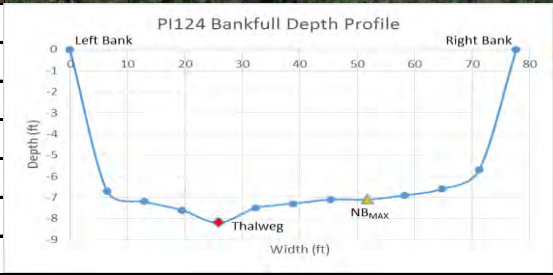
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest
LB Landuse: Pasture





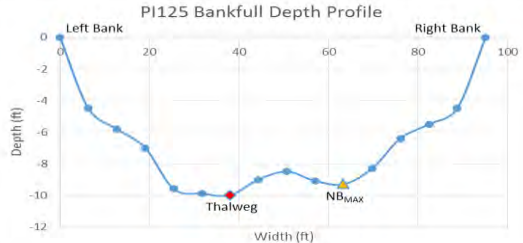
Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.54599 Longitude: -81.79134			County: Hardee Site Number: PI122 Reach Length: 334 ft. Landowner: Burnett OMA	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (25.59)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.75	Additional Site Features	
			Stream Channel Woody Material: Numerous	
			Impoundments: None	
			Substrate Composition: Medium sand	
			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Pasture, Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				



Peace River			Severity Scale: 1.75-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.51118 Longitude: -81.79462			County: Hardee Site Number: PI123 Reach Length: 610 ft. Landowner: EIP Florida LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (24.70)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		1.75		
			Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium sand	
			Bank Material: Sandy clay	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				

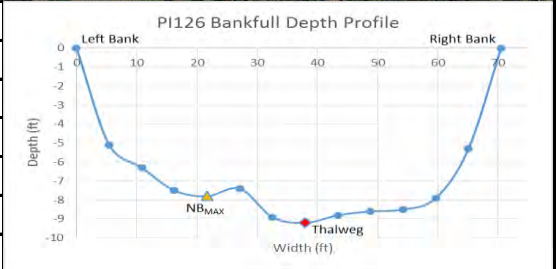


Peace River			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.50804 Longitude: -81.79772			County: Hardee Site Number: PI124 Reach Length: 192 ft. Landowner: M H C Peace River LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (21.85)	0.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.5		
			Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium sand	
			Bank Material: Sandstone	
			Near Bank Stress: Low	
			RB Landuse: Recreation	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				





Peace River			Severity Scale: 7.5-High
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.49880 Longitude: -81.81047			County: Hardee Site Number: PI125 Reach Length: 40 ft. Landowner: Florida DOT
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	Historic	0.5	
Bank Erosion:	Active	1	
BEHI:	Moderate (21.84)	0.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>7.5</b>	Additional Site Features
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Bedrock/sandstone
			Near Bank Stress: Low
			RB Landuse: Transportation, Natural Forest
			LB Landuse: Transportation, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 2			

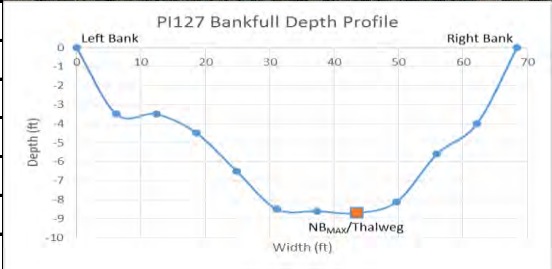
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.49041 Longitude: -81.80960			County: Hardee Site Number: PI126 Reach Length: 180 ft. Landowner: L&J Citrus and Cattle LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.36)	1	
Local NPSP:	No evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		4.25	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Natural Forest



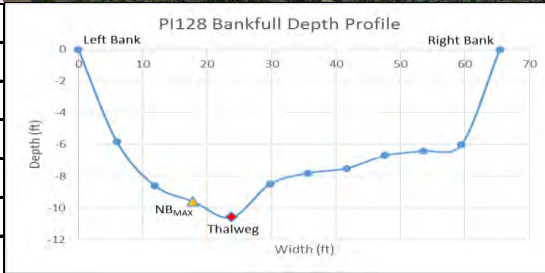


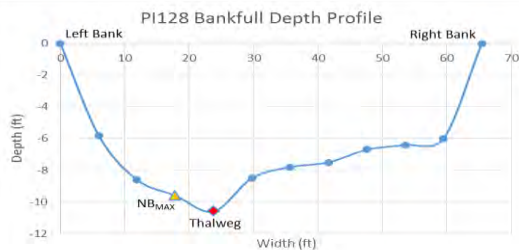
Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48925 Longitude: -81.81301			County: Hardee Site Number: PI127 Reach Length: 85 ft. Landowner: M&R Cattle Co LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (40.33)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1, best to restore along with PI28, PI129 and PI183			



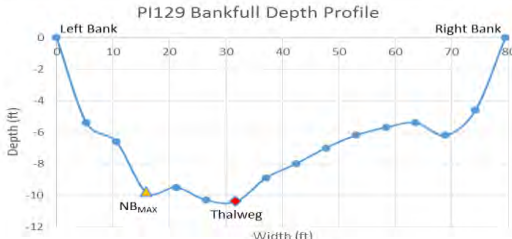


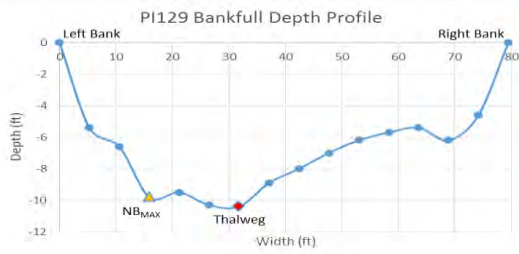
Additional Site Features	
Stream Channel Woody Material:	Moderate
Impoundments:	None
Substrate Composition:	Medium sand
Bank Material:	Sand
Near Bank Stress:	Moderate
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Pasture, Natural Forest





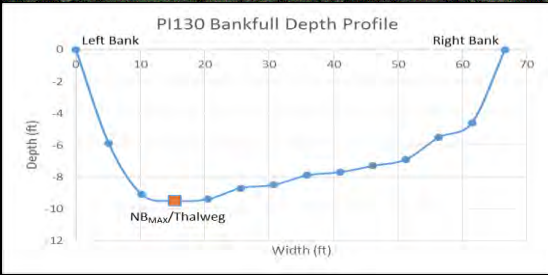
Peace River			Severity Scale: 6.5-Moderate	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48799 Longitude: -81.81319			County: Hardee Site Number: PI128 Reach Length: 155 ft. Landowner: L&J Citrus and Cattle LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (38.51)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	0 ft.	0.75	Stream Channel Woody Material: Infrequent	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium sand	
Severity Scale:		6.5	Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Pasture	
Notes: Cattle trail on top of bank with no fencing; Split up downstream site and this site b/c of large change in bank height; Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1, best to restore along with PI27, PI129 and PI183				





Peace River			Severity Scale: 4.25-Moderate	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48812 Longitude: -81.81322			County: Hardee Site Number: PI129 Reach Length: 115 ft. Landowner: L&J Citrus and Cattle LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (36.12)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Extensive	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium sand	
<b>Severity Scale:</b>			<b>4.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			Bank Material: Sand	
Restoration Option 1, best to restore along with PI27, PI128 and PI183			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	

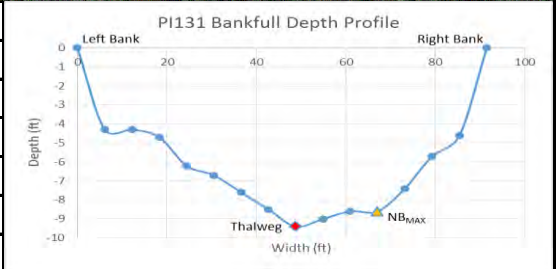






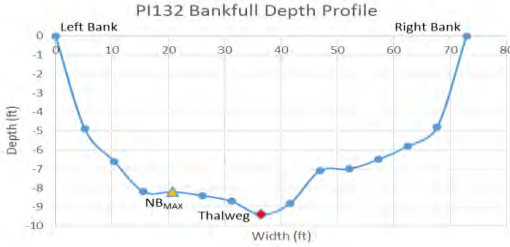
Peace River			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.49135 Longitude: -81.81748			County: Hardee Site Number: PI130 Reach Length: 35 ft. Landowner: L&J Citrus and Cattle LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (32.41)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
			Additional Site Features	
Fish Passage Barrier:	None	0	Stream Channel Woody Material: Moderate	
RB: Riparian Buffer:	0 ft.	0.75	Impoundments: None	
LB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium sand	
RB: Floodplain Access:	Full	0	Bank Material: Sand	
LB: Floodplain Access:	Partial	0.25	Near Bank Stress: High	
Severity Scale:		6.0	RB Landuse: Pasture	
LB Landuse: Natural Forest, Pasture				
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				





Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.49175 Longitude: -81.82163			County: Hardee Site Number: PI131 Reach Length: 60 ft. Landowner: Lucille Crawford
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.23)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

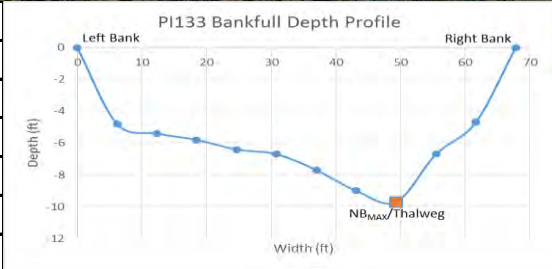


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest
LB Landuse: Residential, Natural Forest

Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47944 Longitude: -81.82955			County: Hardee Site Number: PI132 Reach Length: 420 ft. Landowner: Frederick Willard D Jr Trustee
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (25.98)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Pasture
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1, the Peace River is cutting a new channel and forming an oxbow, in this case the best option would be to cut the channel for the river and stabilize with toewood. This should be done in conjunction with sites PI196 and PI197			





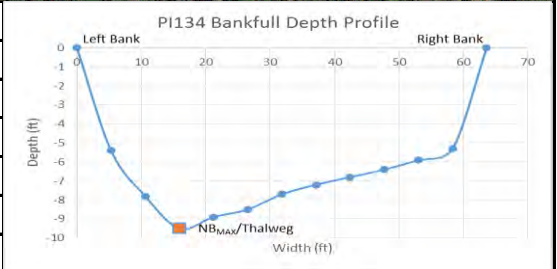
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47492 Longitude: -81.83322			County: Hardee Site Number: PI133 Reach Length: 300 ft. Landowner: Frederick Willard D Jr Trustee
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.52)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





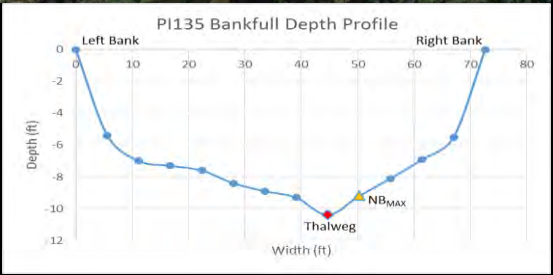
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest
LB Landuse: Natural Forest, Pasture





Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47526 Longitude: -81.83175			County: Hardee Site Number: PI134 Reach Length: 50 ft. Landowner: Frederick Willard D Jr Trustee
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (40.35)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

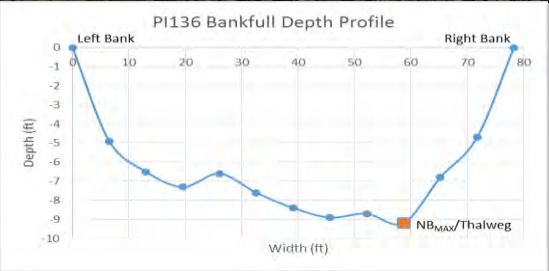


Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest
LB Landuse: Pasture, Natural Forest



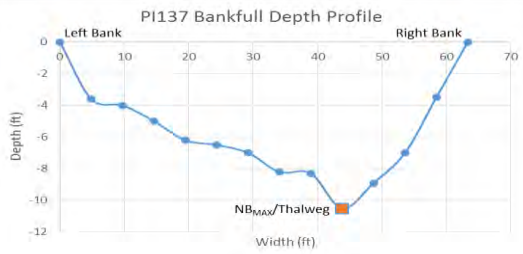
Peace River			Severity Scale: 6.5-Moderate	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47164 Longitude: -81.83285			County: Hardee Site Number: PI135 Reach Length: 120 ft. Landowner: Frederick Willard D Jr	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (38.50)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25	Additional Site Features	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Partial	0.25	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium sand	
Severity Scale:		6.5	Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest, Pasture	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				





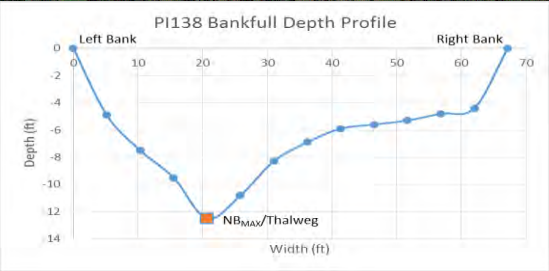
Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47189 Longitude: -81.83989			County: Hardee Site Number: PI136 Reach Length: 300 ft. Landowner: Frederick Willard D Jr
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.13)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			







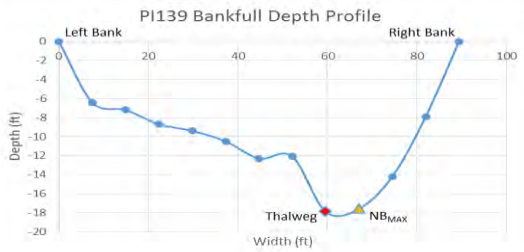
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46087 Longitude: -81.84898			County: Hardee Site Number: PI137 Reach Length: 100 ft. Landowner: 3-C Ranch Limited
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.12)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.45183 Longitude: -81.84489			County: Hardee Site Number: PI138 Reach Length: 230 ft. Landowner: Ben Hill Griffin Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.67)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.45022 Longitude: -81.84930			County: Hardee Site Number: PI139 Reach Length: 100 ft. Landowner: Ben Hill Griffin Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.65)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



#### Additional Site Features

Stream Channel Woody Material: Extensive

Impoundments: None

Substrate Composition: Medium sand



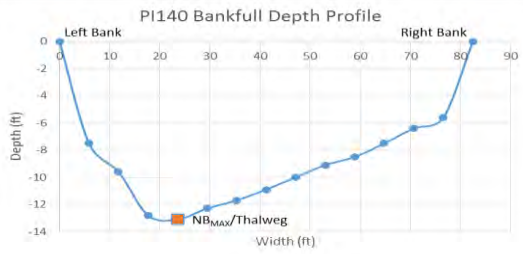
Bank Material: Sand



Near Bank Stress: High

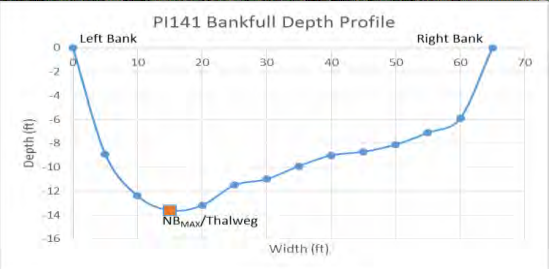
RB Landuse: Natural Forest, Pasture

LB Landuse: Natural Forest





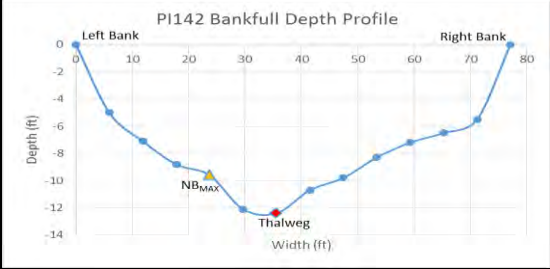
Peace River			Severity Scale: 3.75-Low
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44865 Longitude: -81.84810			County: Hardee Site Number: PI140 Reach Length: 150 ft. Landowner: Ben Hill Griffin Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.04)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.75</b>	Additional Site Features
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Clay
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Pasture
Notes: Cattle fence approx. 73 yds from river; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44617 Longitude: -81.85040			County: Hardee Site Number: PI141 Reach Length: 270 ft. Landowner: Mosaic Fertilizer LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (20.89)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.75	
Notes: Wood house on river, probably not used; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			


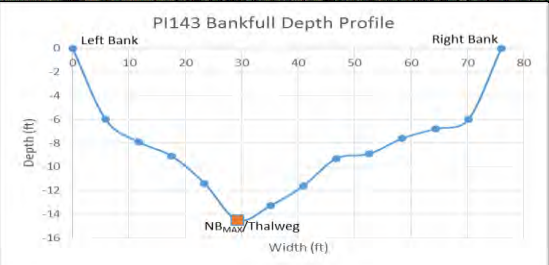




Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium sand
Bank Material:	Sandy clay
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Natural Forest

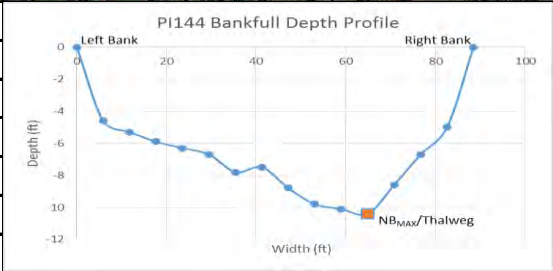


Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44409 Longitude: -81.84810			County: Hardee Site Number: PI142 Reach Length: 230 ft. Landowner: Ben Hill Griffin Inc	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (23.86)	0.5		
Local NPSP:	No evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium sand	
Severity Scale: 3.75			Bank Material: Sandy clay	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				





Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44213 Longitude: -81.84900			County: Hardee Site Number: PI143 Reach Length: 150 ft. Landowner: Ben Hill Griffin Inc
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (22.27)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.5	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium sand Bank Material: Sandy clay Near Bank Stress: Moderate RB Landuse: Natural Forest LB Landuse: Pasture, Natural Forest
Notes: Fenced out cattle; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

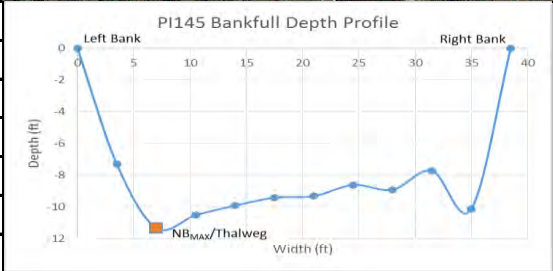
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44179 Longitude: -81.85090			County: Hardee Site Number: PI144 Reach Length: 140 ft. Landowner: Ben Hill Griffin Inc/Mosaic
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (31.35)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.0	
Notes: Fenced out cattle; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Natural Forest





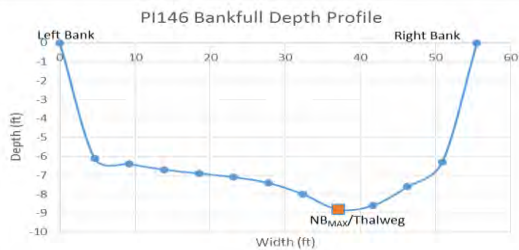
Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44098 Longitude: -81.85070			County: Hardee Site Number: PI145 Reach Length: 340 ft. Landowner: Ben Hill Griffin Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.06)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



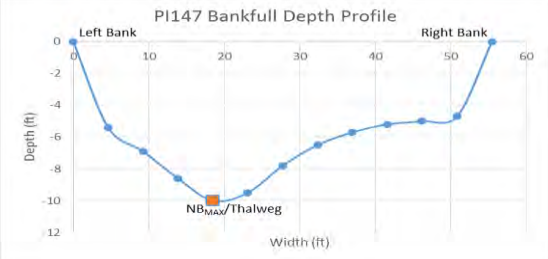


Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Clay
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest



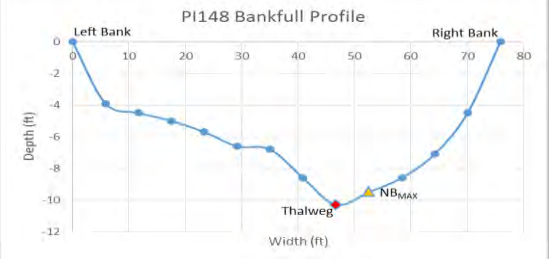


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.43816 Longitude: -81.85160			County: Hardee Site Number: PI146 Reach Length: 200 ft. Landowner: Ben Hill Griffin Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (23.76)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium sand Bank Material: Sandy clay Near Bank Stress: High RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: Right bank of right fork (looking DS) around island; Fenced out cattle; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





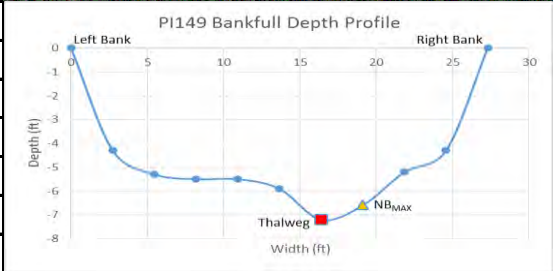
Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.43961 Longitude: -81.85090			County: Hardee Site Number: PI147 Reach Length: 100 ft. Landowner: Ben Hill Griffin Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (35.74)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Notes: Left bank of right fork (looking DS) around island; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





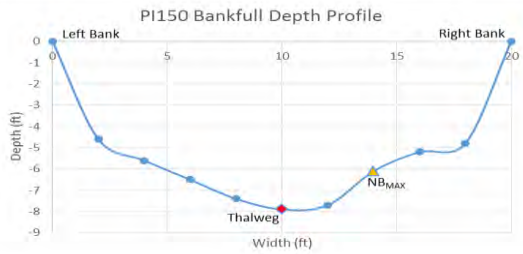
Peace River			Severity Scale: 7.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39033 Longitude: -81.84560			County: Hardee Site Number: PI148 Reach Length: 100 ft. Landowner: Ben Hill Griffin Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (41.79)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





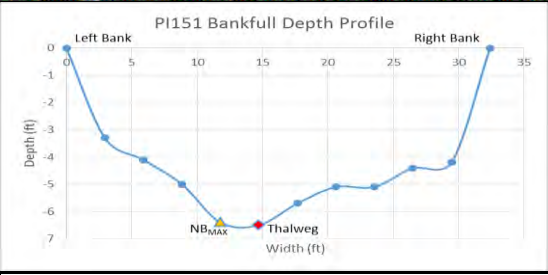
Horse Creek			Severity Scale: 2.25-Low
Watershed: Peace River Subwatershed: Horse Creek Latitude: 27.15109 Longitude: -81.96756			County: Desoto Site Number: PI149 Reach Length: 64 ft. Landowner: TITF/State of Florida
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (33.32)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.25</b>	
Notes: 303d: Impaired - Public Water Supply (BOD, DO)			
Restoration Option 1			





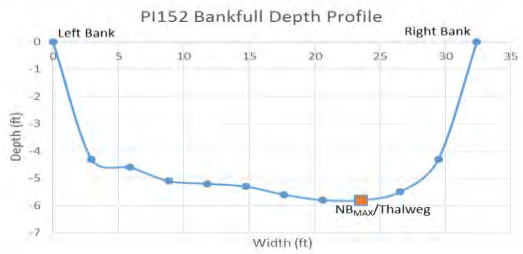
Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Fine Sand
Bank Material:	Sand
Near Bank Stress:	Moderate
RB Landuse:	Natural forest
LB Landuse:	Natural forest



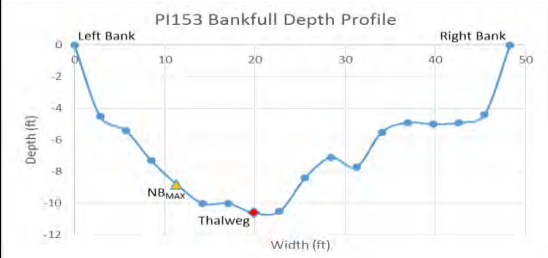
Horse Creek			Severity Scale: 2.25-Low	
Watershed: Peace River Subwatershed: Horse Creek Latitude: 27.14805 Longitude: -81.96825			County: Desoto Site Number: PI150 Reach Length: 48 ft. Landowner: TITF/State of Florida	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (37.91)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Partial	0.25	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Fine Sand	
<b>Severity Scale:</b>		<b>2.25</b>	Bank Material: Sand	
Notes: Some clay in bank, freshly burned right bank on Forest Service land; 303d: Impaired - Public water supply (BOD, DO)			Near Bank Stress: Moderate	
Restoration Option 1			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	





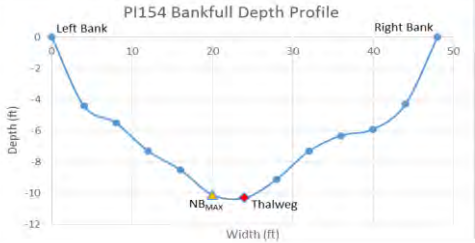
Horse Creek			Severity Scale: 2.25-Low	
Watershed: Peace River Subwatershed: Horse Creek Latitude: 27.14731 Longitude: -81.96651			County: Desoto Site Number: PI151 Reach Length: 94 ft. Landowner: TITF/State of Florida	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (37.59)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Infrequent	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand	
<b>Severity Scale:</b>		<b>2.25</b>	Bank Material: Sand	
Notes: Some sand stone and clay in bank; 303d: Impaired - Public Water Supply (BOD, DO)			Near Bank Stress: Moderate	
Restoration Option 1			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	





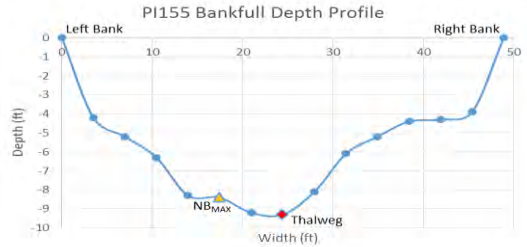
Horse Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Horse Creek Latitude: 27.12882 Longitude: -81.97503			County: Desoto Site Number: PI152 Reach Length: 58 ft. Landowner: Janene Cline
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (21.35)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Natural Forest
Notes: Cattle pasture on right bank-cattle fenced out of creek; 303d: Impaired - Public Water			
Supply (BOD, DO)			
Restoration Option 1			



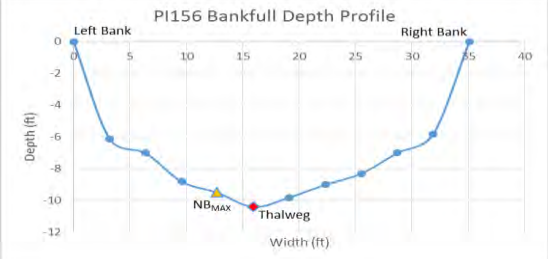
Joshua Creek			Severity Scale: 3.25-Low			
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.16516 Longitude: -81.89936			County: Desoto Site Number: PI153 Reach Length: 53 ft. Landowner: D Geraci			
						
Risk Factor	Ranking	Score				
Pfankuch-Channel Stability:	N/A	0				
Channel Alteration:	None	0				
Bank Erosion:	Active	1				
BEHI:	Moderate (25.43)	0.5				
Local NPSP:	Obvious Sources	1.5				
Shoring Structures:	None	0				
Pipe Discharge:	None	0				
Water Odor:	Normal	0				
Fish Passage Barrier:	None	0				
RB: Riparian Buffer:	70 ft.	0.25	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: Woody material jams Substrate Composition: Fine sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural forest, pasture LB Landuse: Natural forest			
LB: Riparian Buffer:	100 ft.	0				
RB: Floodplain Access:	Full	0				
LB: Floodplain Access:	Full	0				
<b>Severity Scale:</b>		<b>3.25</b>				
Notes: Debris jam above site; Cattle fenced out of area; 303d: Impaired-Aquatic Life Harvesting (DO)						
Restoration Option 1 or 2						





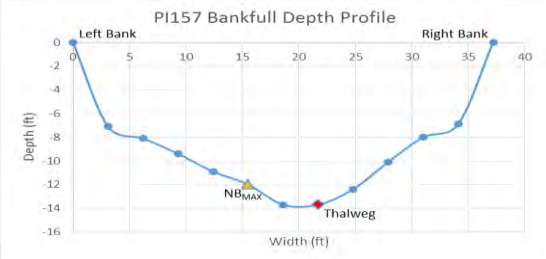
Joshua Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.16509 Longitude: -81.89852			County: Desoto Site Number: PI154 Reach Length: 15 ft. Landowner: Daniel C & Karry L Voss
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (21.90)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.0	Additional Site Features
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Fine sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
303d: Impaired - Aquatic Life Harvesting (DO)			
Restoration Option 1 or 2			





Joshua Creek			Severity Scale: 3.0-Low	
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.16502 Longitude: -81.89826			County: Desoto Site Number: PI155 Reach Length: 75 ft. Landowner: Daniel C. & Karry L. Voss	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (23.64)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.0	Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Fine sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
303d: Impaired - Aquatic Life Harvesting (DO)				
Restoration Option 1				

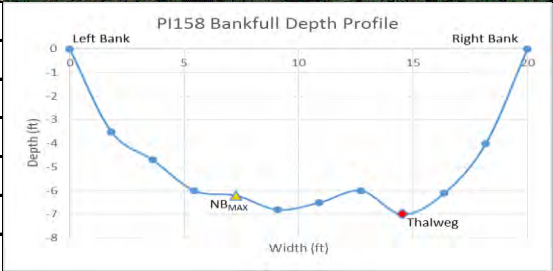
Joshua Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.17074 Longitude: -81.89489			County: Desoto Site Number: PI156 Reach Length: 37 ft. Landowner: D D & TR Geraci
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (33.07)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	None	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Fine sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
303d: Impaired - Aquatic Life Harvesting (DO)			
Restoration Option 1			





Joshua Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.16977 Longitude: -81.89349			County: Desoto Site Number: PI157 Reach Length: 102 ft. Landowner: Daniel C. & Karry L. Voss
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.81)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Fine sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural forest
			LB Landuse: Pasture, Natural forest
303d: Impaired - Aquatic Life Harvesting (DO)			
Restoration Option 1			

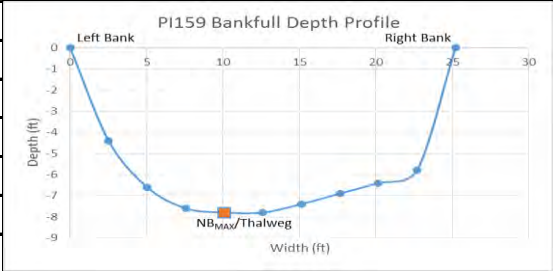


Joshua Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.16935 Longitude: -81.88608			County: Desoto Site Number: PI158 Reach Length: 85 ft. Landowner: Desoto Co. Block Plant LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (32.37)	1	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		4.25	
303d: Impaired - Aquatic Life Harvesting (DO)			
Restoration Option 1			





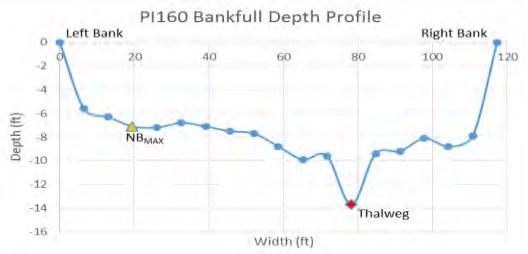
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium sand
Bank Material: Sand with a clay layer
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Natural forest, Pasture

Joshua Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.16794 Longitude: -81.88448			County: Desoto Site Number: PI159 Reach Length: 90 ft. Landowner: Desoto Co. Block Plant LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (39.50)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		4.75	
303d: Impaired - Aquatic Life Harvesting (DO)			
Restoration Option 1			



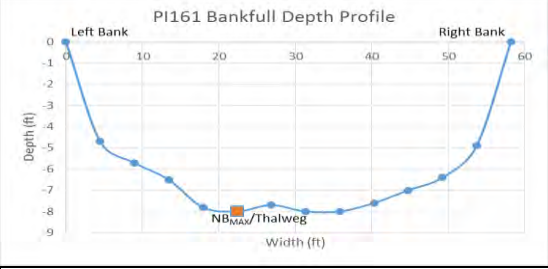




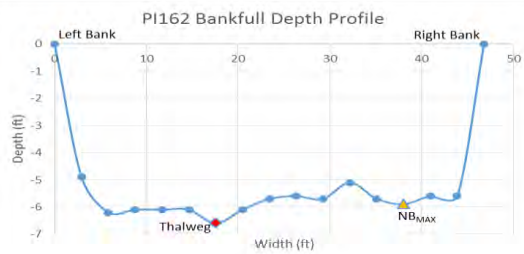
Additional Site Features
Stream Channel Woody Material: Extensive
Impoundments: None
Substrate Composition: Fine Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest
LB Landuse: Natural Forest, Pasture





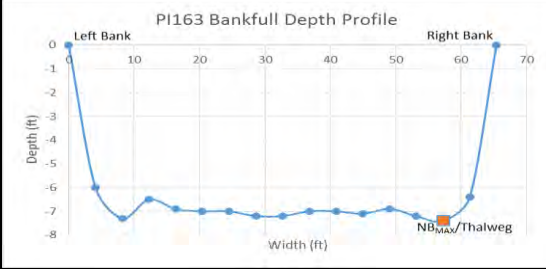
Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.34915 Longitude: -81.82518			County: Hardee Site Number: PI160 Reach Length: 150 ft. Landowner: Limestone Ranch, LLC
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.10)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	50 ft.	0.25	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: Cattle fenced out; Site is located at the confluence of the Peace River and Charlie Creek;			
303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





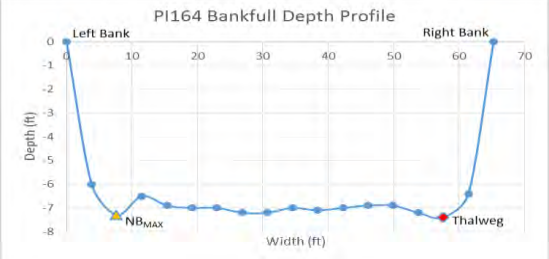
Charlie Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.35010 Longitude: -81.82582			County: Hardee Site Number: PI161 Reach Length: 95 ft. Landowner: Limestone Ranch, LLC
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.20)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest LB Landuse: Natural Forest, Pasture
303d: Impaired - Fecal Coliform			
Restoration Option 1			



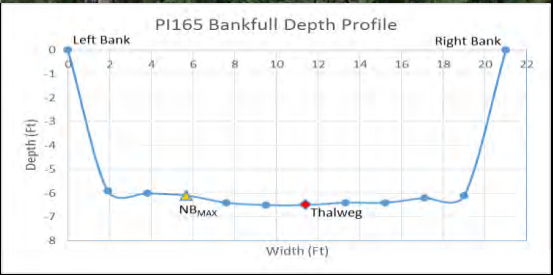
Charlie Creek			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.35389 Longitude: -81.82513			County: Hardee Site Number: PI162 Reach Length: 78 ft. Landowner: Limestone Ranch, LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (27.20)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	50 ft.	0.25		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
Severity Scale:		4.0	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Pasture	
303d: Impaired - Fecal Coliform				
Restoration Option 1				





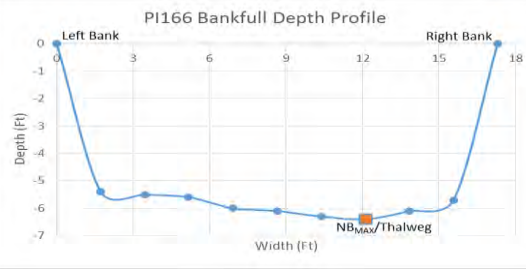
Charlie Creek			Severity Scale: 5.0-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.35803 Longitude: -81.81849			County: Hardee Site Number: PI163 Reach Length: 78 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (39.90)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75		
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.0	Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Very High	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Pasture, Natural Forest	
303d: Impaired - Fecal Coliform				
Restoration Option 2				





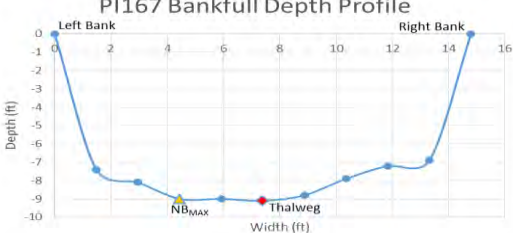
Charlie Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.35789 Longitude: -81.81869			County: Hardee Site Number: PI164 Reach Length: 50 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Extreme (47.10)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Very High
			RB Landuse: Pasture
			LB Landuse: Pasture, Natural forest
Notes: Cattle access point; Cow patties present; 303d: Impaired - Fecal Coliform			
Restoration Option 2			



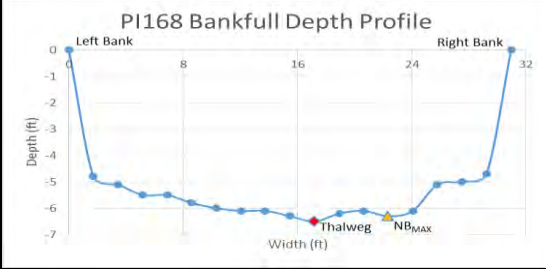
Payne Creek			Severity Scale: 3.25-Low																																														
Watershed: Peace River Subwatershed: Lower Payne Creek Latitude: 27.62053 Longitude: -81.84277			County: Hardee Site Number: PI165 Reach Length: 13 ft. Landowner: MOSAIC FERTILIZER LLC																																														
																																																	
<table><thead><tr><th>Risk Factor</th><th>Ranking</th><th>Score</th></tr></thead><tbody><tr><td>Pfankuch-Channel Stability:</td><td>Good</td><td>0</td></tr><tr><td>Channel Alteration:</td><td>None</td><td>0</td></tr><tr><td>Bank Erosion:</td><td>Active</td><td>1</td></tr><tr><td>BEHI:</td><td>High (31.83)</td><td>1</td></tr><tr><td>Local NPSP:</td><td>Slight Potential</td><td>0.5</td></tr><tr><td>Shoring Structures:</td><td>None</td><td>0</td></tr><tr><td>Pipe Discharge:</td><td>None</td><td>0</td></tr><tr><td>Water Odor:</td><td>Normal</td><td>0</td></tr><tr><td>Fish Passage Barrier:</td><td>None</td><td>0</td></tr><tr><td>RB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>LB: Riparian Buffer:</td><td>0 ft.</td><td>0.75</td></tr><tr><td>RB: Floodplain Access:</td><td>Full</td><td>0</td></tr><tr><td>LB: Floodplain Access:</td><td>Full</td><td>0</td></tr><tr><td colspan="2">Severity Scale:</td><td>3.25</td></tr></tbody></table>			Risk Factor	Ranking	Score	Pfankuch-Channel Stability:	Good	0	Channel Alteration:	None	0	Bank Erosion:	Active	1	BEHI:	High (31.83)	1	Local NPSP:	Slight Potential	0.5	Shoring Structures:	None	0	Pipe Discharge:	None	0	Water Odor:	Normal	0	Fish Passage Barrier:	None	0	RB: Riparian Buffer:	100 ft.	0	LB: Riparian Buffer:	0 ft.	0.75	RB: Floodplain Access:	Full	0	LB: Floodplain Access:	Full	0	Severity Scale:		3.25		
Risk Factor	Ranking	Score																																															
Pfankuch-Channel Stability:	Good	0																																															
Channel Alteration:	None	0																																															
Bank Erosion:	Active	1																																															
BEHI:	High (31.83)	1																																															
Local NPSP:	Slight Potential	0.5																																															
Shoring Structures:	None	0																																															
Pipe Discharge:	None	0																																															
Water Odor:	Normal	0																																															
Fish Passage Barrier:	None	0																																															
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LB: Riparian Buffer:	0 ft.	0.75																																															
RB: Floodplain Access:	Full	0																																															
LB: Floodplain Access:	Full	0																																															
Severity Scale:		3.25																																															
			<b>Additional Site Features</b>																																														
			Stream Channel Woody Material: Infrequent																																														
			Impoundments: None																																														
			Substrate Composition: Fine Sand/Gravel																																														
			Bank Material: Sand																																														
			Near Bank Stress: Low																																														
			RB Landuse: Natural Forest																																														
			LB Landuse: Recreational																																														
Notes: Road crossing just upstream; 303d: NA																																																	
Restoration Option 2 or 3																																																	




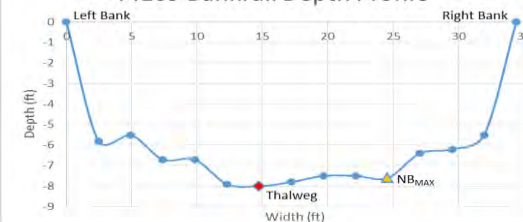
Payne Creek			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Lower Payne Creek Latitude: 27.61997 Longitude: -81.84184			County: Hardee Site Number: PI166 Reach Length: 41 ft. Landowner: Hardee County BBC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (23.47)	0.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.75	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Fine Sand	
			Bank Material: Sand/Clay	
			Near Bank Stress: High	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: NA				
Restoration Option 1				





Payne Creek			Severity Scale: 2.75-Low
Watershed: Peace River Subwatershed: Lower Payne Creek Latitude: 27.62005 Longitude: -81.84152			County: Hardee Site Number: PI167 Reach Length: 20 ft. Landowner: Hardee County BBC
 			
Risk Factor	Ranking	Score	<div> PI167 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (18.59)	0	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.75</b>	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand/Clay Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest
Notes: 303d: Impaired - coliforms, nutrients			
Restoration Option 1			

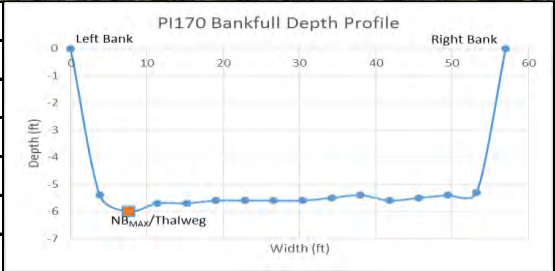
Payne Creek			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: Lower Payne Creek Latitude: 27.62031 Longitude: -81.82484			County: Hardee Site Number: PI168 Reach Length: 28 ft. Landowner: Wilder Corporation of DE	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (35.75)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand	
Severity Scale:			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Residential, Natural Forest	
Notes: 303d: NA				
Restoration Option 1				





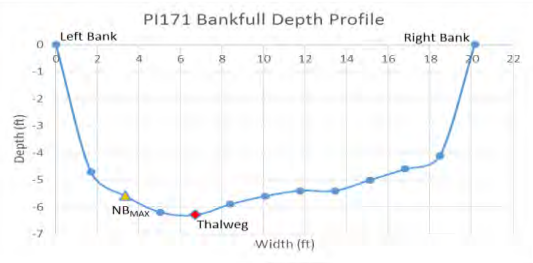
Payne Creek			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Lower Payne Creek Latitude: 27.61895 Longitude: -81.82192			County: Hardee Site Number: PI169 Reach Length: 30 ft. Landowner: Gary Delatorre
			
Risk Factor	Ranking	Score	<div> PI169 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (31.44)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.25</b>	
Notes: Cattle fencing falling into stream; 303d: NA			<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 1			





Payne Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Lower Payne Creek Latitude: 27.61920 Longitude: -81.82048			County: Hardee Site Number: PI170 Reach Length: 55 ft. Landowner: Loyd M & Jane F Larramore
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.76)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.75	
Notes: 303d: NA			
Restoration Option 1			

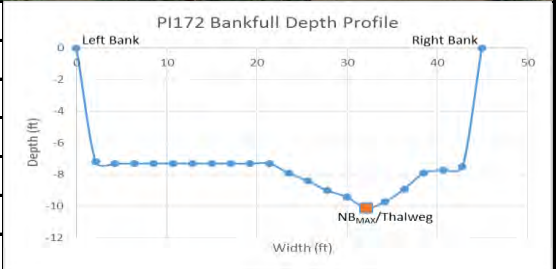


Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Limestone
Bank Material: Sand
Near Bank Stress: Very High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

Payne Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Lower Payne Creek Latitude: 27.61920 Longitude: -81.82048			County: Hardee Site Number: PI171 Reach Length: 55 ft. Landowner: TIITF/ DIV REC & PARKS	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (28.86)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	Present	1.5		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.5		
Notes: 303d: NA			Additional Site Features	
Restoration Option 1			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest	
			LB Landuse: State Park, Natural Forest	





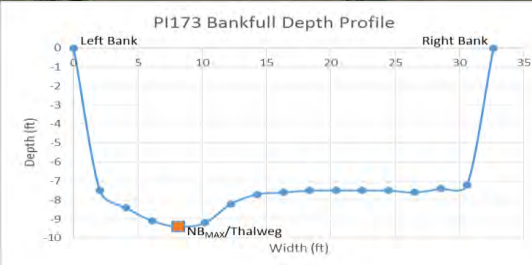
Charlie Creek			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.35881 Longitude: -81.81635			County: Hardee Site Number: PI172 Reach Length: 48 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (42.06)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		5.0	
303d: Impaired - Fecal Coliform			
Restoration Option 1			



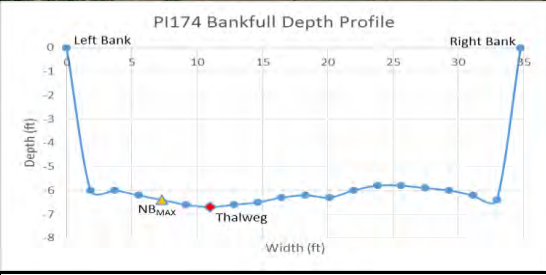


Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest





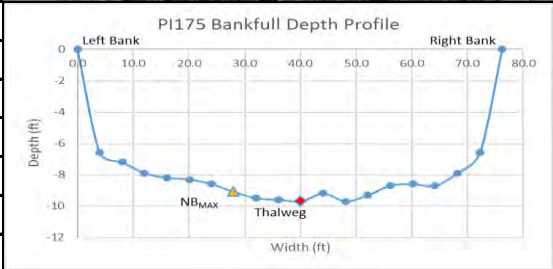
Charlie Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.36011 Longitude: -81.81487			County: Hardee Site Number: PI173 Reach Length: 173 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.78)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.75</b>	
303d: Impaired - Fecal Coliform			
Restoration Option 1			



Charlie Creek			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.36153 Longitude: -81.81394			County: Hardee Site Number: PI174 Reach Length: 19 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (41.75)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.75</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
303d: Impaired - Fecal Coliform			
Restoration Option 1 or 2			



Charlie Creek			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.36371 Longitude: -81.81294			County: Hardee Site Number: PI175 Reach Length: 88 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.73)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.0</b>	
303d: Impaired - Fecal Coliform			
Restoration Option 2 or 3			



Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Silt/Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture



# Charlie Creek

Severity Scale: 4.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.36729

Longitude: -81.81027

County: Hardee

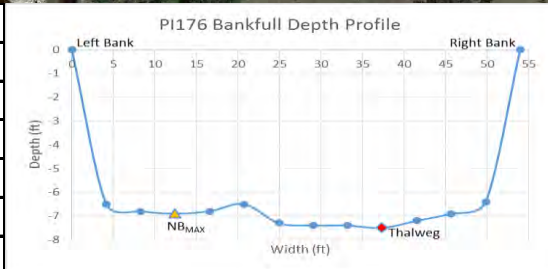
Site Number: PI176

Reach Length: 352 ft.

Landowner: Ben Hill Griffin Inc.





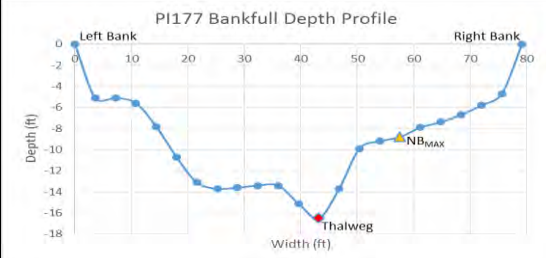
Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (39.12)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
Severity Scale:		4.75





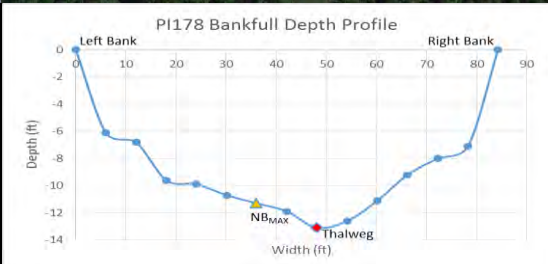
Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand/Limestone
Near Bank Stress: Low
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

303d: Impaired - Fecal Coliform



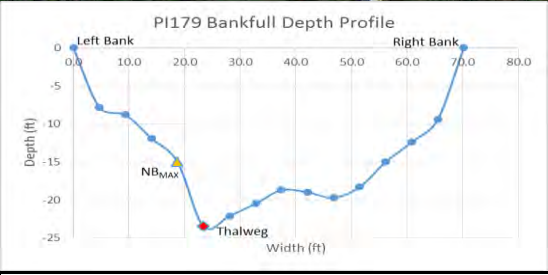
Restoration Option 2 or 3



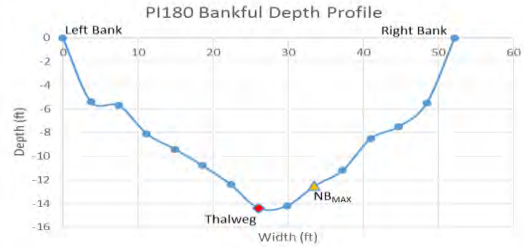
Prairie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 26.99107 Longitude: -81.89481			County: Charlotte Site Number: PI177 Reach Length: 20 ft. Landowner: Scott B Weinberg	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (35.49)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Residential LB Landuse: Natural Forest	
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>3.5</b>		
Notes: 303d: Impaired - Public water supply (DO, TDS)				
Restoration Option 1				





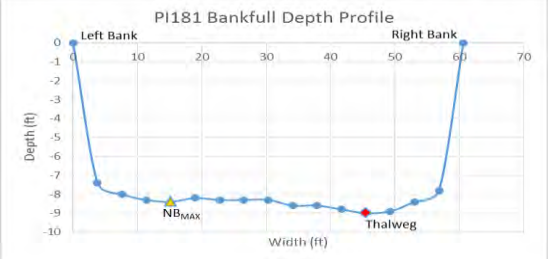
Prairie Creek			Severity Scale: 2.0-Low	
Watershed:Peace River Subwatershed: Lower Prairie Creek Latitude: 26.99524 Longitude: -81.89378			County: Charlotte Site Number: PI178 Reach Length: 24 ft. Landowner: OTTOCARS LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (24.39)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		2.0	Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Pasture	
Notes: 303d: Impaired - Public water supply (DO, TDS)				
Restoration Option 1				





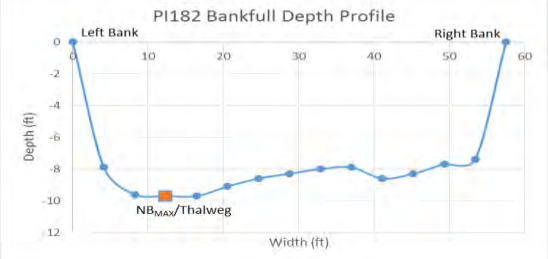
Prairie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 26.99965 Longitude: -81.88410			County: Charlotte Site Number: PI179 Reach Length: 40 ft. Landowner: Prairie Creek Park
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (32.97)	1	
Local NPSP:	No evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Natural Forest, Recreation
Notes: 303d: Impaired - Public water supply (DO, TDS)			
Restoration Option 1			



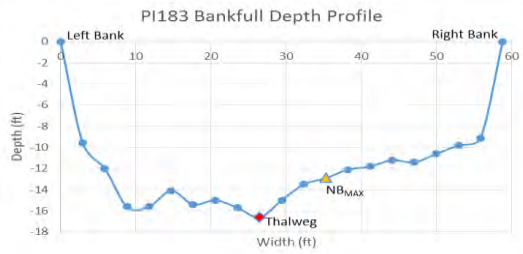
Myrtle Slough			Severity Scale: 4.75-Moderate	
Watershed: Peace River Subwatershed: Myrtle Slough Latitude: 26.97209 Longitude: -81.94208			County: Charlotte Site Number: PI180 Reach Length: 90 ft. Landowner: Hooijkaas Frank & AH TRS	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (25.48)	0.5		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	Present	1.5		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		4.75		
Notes: Tidally influenced; 303d: Impaired - Aquatic life harvesting (DO, fecal, coliform, iron, mercury in fish tissue)			Additional Site Features	
			Stream Channel Woody Material: Infrequent	
Restoration Option 1			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Residential	





Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.49326 Longitude: -81.80888			County: Hardee Site Number: PI181 Reach Length: 110 ft. Landowner: Kalhil Faryt as Trustee
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.58)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

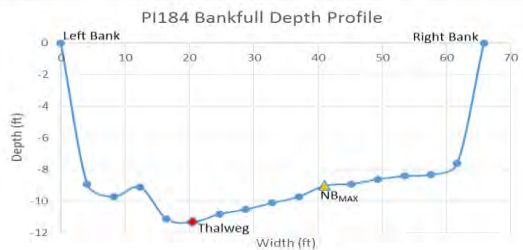


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48955 Longitude: -81.81084			County: Hardee Site Number: PI182 Reach Length: 440 ft. Landowner: L & J Citrus and Cattle LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (33.67)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48875 Longitude: -81.81387			County: Hardee Site Number: PI183 Reach Length: 570 ft. Landowner: M & R Cattle Co. LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.49)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>6.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1, best to restore along with sites PI27, PI128 and PI129			



Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.49222 Longitude: -81.81722			County: Hardee Site Number: PI184 Reach Length: 860 ft. Landowner: M & R Cattle Co. LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.54)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1, best to restored along with site PI278			



#### Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand



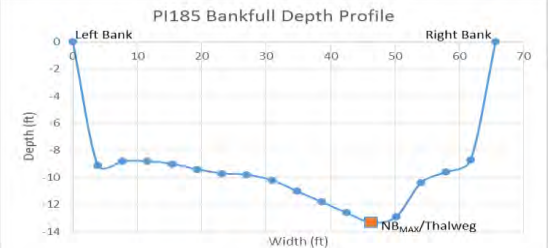
Bank Material: Sand



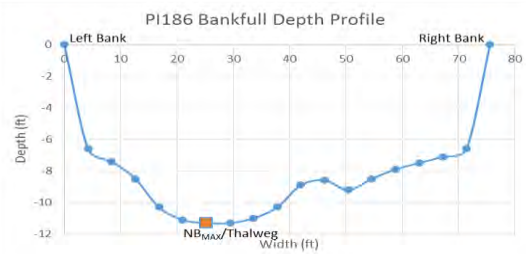
Near Bank Stress: Low

RB Landuse: Pasture



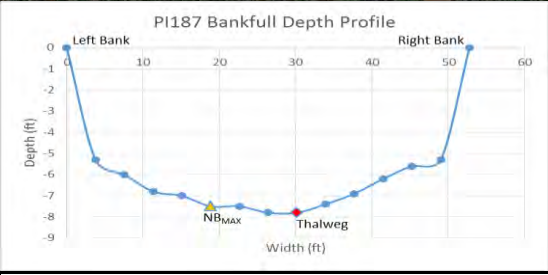
LB Landuse: Natural Forest, Pasture





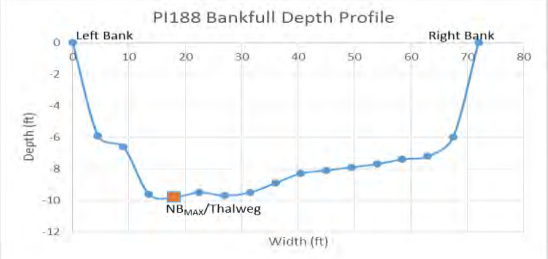
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.49405 Longitude: -81.81743			County: Hardee Site Number: PI185 Reach Length: 410 ft. Landowner: M & R Cattle Co. LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.94)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



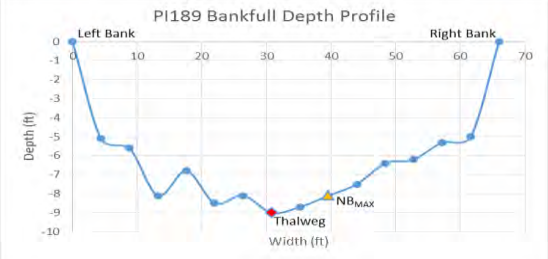
Peace River			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48674 Longitude: -81.82354			County: Hardee Site Number: PI186 Reach Length: 200 ft. Landowner: L & J Citrus and Cattle LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (34.68)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		4.0	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Residential	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				





Peace River			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48634 Longitude: -81.82451			County: Hardee Site Number: PI187 Reach Length: 115 ft. Landowner: Griffin Fannie Race & Others	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (29.27)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Full	0	<b>Additional Site Features</b>	
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>3.25</b>	Stream Channel Woody Material: Infrequent	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A  Restoration Option 2 or 3			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Residential	

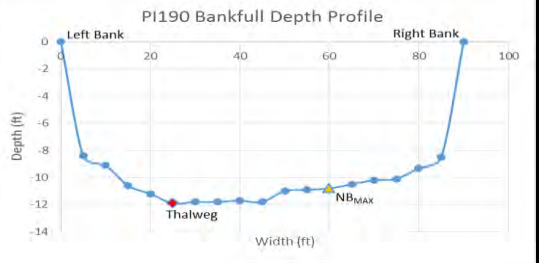


Peace River			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48640 Longitude: -81.82580			County: Hardee Site Number: PI188 Reach Length: 525 ft. Landowner: Clarence Wendell Cole	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (28.04)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0	Additional Site Features	
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.25	Stream Channel Woody Material: Numerous	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
Restoration Option 1			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	



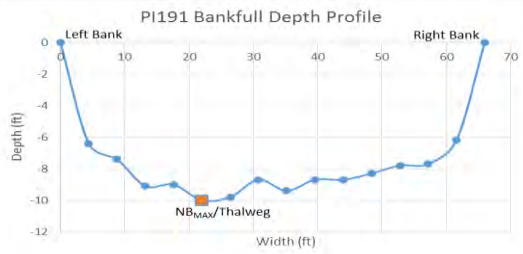
Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48732 Longitude: -81.82758			County: Hardee Site Number: PI189 Reach Length: 125 ft. Landowner: Clarence Wendell Cole
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.31)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		5.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



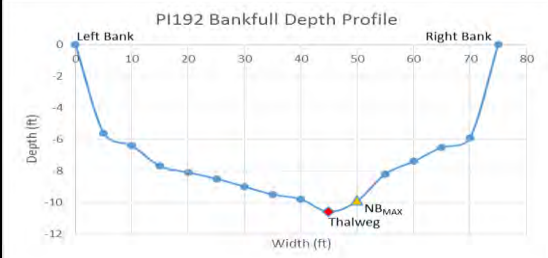


Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48574 Longitude: -81.82845			County: Hardee Site Number: PI190 Reach Length: 175 ft. Landowner: Clarence Wendell Cole
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.20)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Low RB Landuse: Pasture, Natural Forest LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



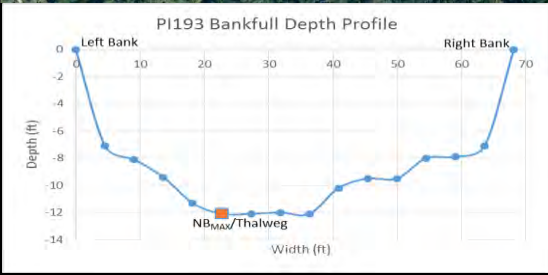






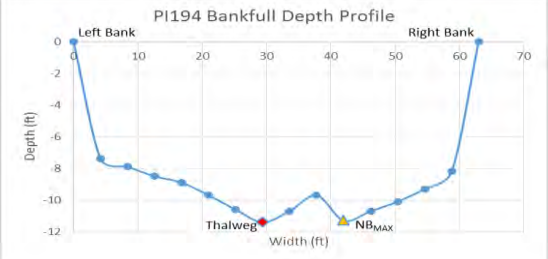
Peace River			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48396 Longitude: -81.82889			County: Hardee Site Number: PI191 Reach Length: 675 ft. Landowner: Frederick Willard D Jr.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.67)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



Peace River			Severity Scale: 3.75-Low
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48372 Longitude: -81.82909			County: Hardee Site Number: PI192 Reach Length: 245 ft. Landowner: Frederick Willard D Jr.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.44)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	Additional Site Features
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Numerous
RB: Floodplain Access:	Partial	0.25	Impoundments: None
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand
Severity Scale: 3.75			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

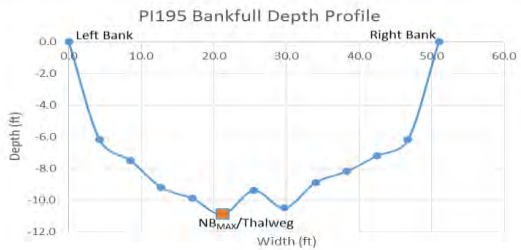


Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48186 Longitude: -81.83077			County: Hardee Site Number: PI193 Reach Length: 580 ft. Landowner: Frederick Willard D Jr.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (28.16)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
			Additional Site Features	
RB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Numerous	
LB: Riparian Buffer:	100 ft.	0	Impoundments: None	
RB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
LB: Floodplain Access:	Partial	0.25	Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Natural Forest	
Severity Scale: 3.75				
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				





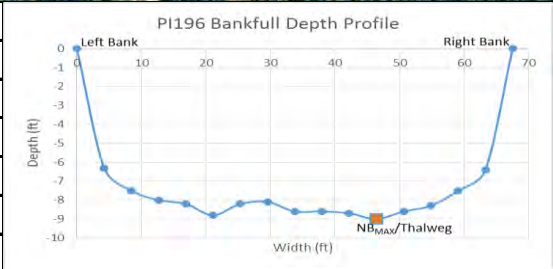
Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48113 Longitude: -81.83076			County: Hardee Site Number: PI194 Reach Length: 500 ft. Landowner: Frederick Willard D Jr.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.38)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
			Additional Site Features
RB: Riparian Buffer:	60 ft.	0.25	Stream Channel Woody Material: Extensive
LB: Riparian Buffer:	40 ft.	0.5	Impoundments: None
RB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand
LB: Floodplain Access:	Full	0	Bank Material: Sand
<b>Severity Scale:</b>			Near Bank Stress: Low
			RB Landuse: Natural Forest, Recreation
			LB Landuse: Natural Forest, Pasture
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.48042 Longitude: -81.83052			County: Hardee Site Number: PI195 Reach Length: 180 ft. Landowner: Frederick Willard D Jr.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.83)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			







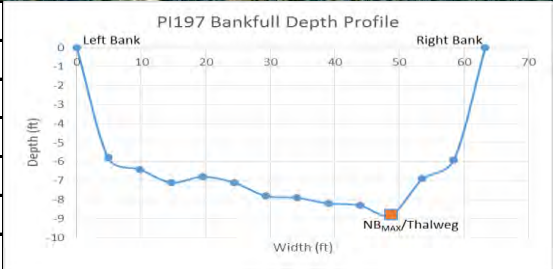
Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47971 Longitude: -81.83095			County: Hardee Site Number: PI196 Reach Length: 390 ft. Landowner: Frederick Willard D Jr.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.55)	0.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1, the Peace River is cutting a new channel and forming an oxbow, in this case the best option would be to cut the channel for the river and stabilize with toewood. This should be done in conjunction with sites PI132 and PI197			





Additional Site Features
Stream Channel Woody Material: Extensive
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest

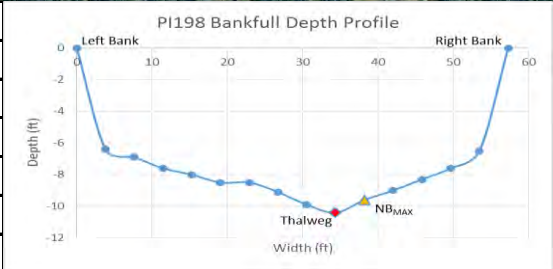


Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47883 Longitude: -81.83163			County: Hardee Site Number: PI197 Reach Length: 280 ft. Landowner: Frederick Willard D Jr.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.85)	0.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1, the Peace River is cutting a new channel and forming an oxbow, in this case the best option would be to cut the channel for the river and stabilize with toewood. This should be done in conjunction with sites PI132 and PI196			





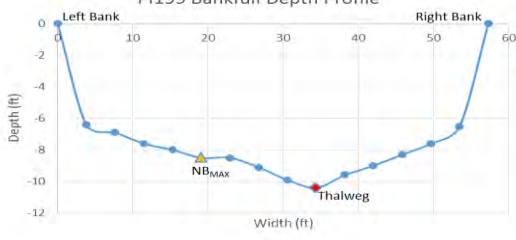
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest

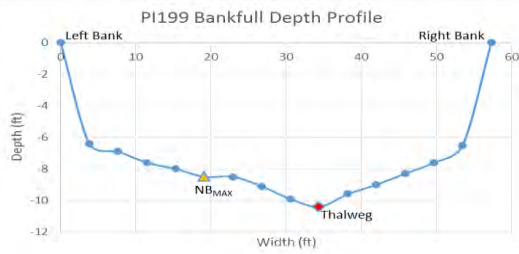
Peace River			Severity Scale: 9.25-High
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47731 Longitude: -81.83303			County: Hardee Site Number: PI198 Reach Length: 300 ft. Landowner: Frederick Willard D Jr.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.33)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	Present	1.5	
Pipe Discharge:	Present	1.5	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>9.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Residential, Natural Forest
LB Landuse: Pasture

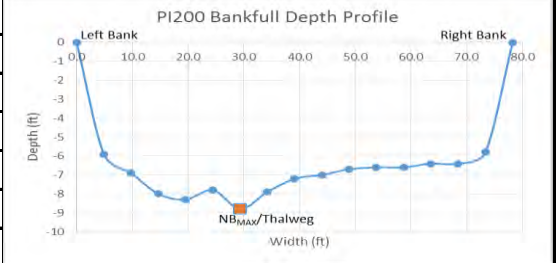


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47634 Longitude: -81.83235			County: Hardee Site Number: PI199 Reach Length: 500 ft. Landowner: Frederick Willard D Jr.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.77)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
			Additional Site Features
RB: Riparian Buffer:	0 ft.	0.75	Stream Channel Woody Material: Infrequent
LB: Riparian Buffer:	0 ft.	0.75	Impoundments: None
RB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand
LB: Floodplain Access:	Full	0	Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Residential, Natural Forest
			LB Landuse: Pasture
<b>Severity Scale:</b>			<b>6.25</b>
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 3			





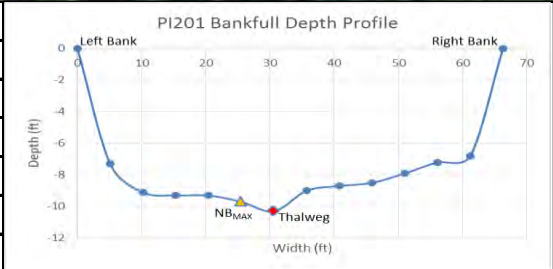


Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47624 Longitude: -81.83244			County: Hardee Site Number: PI200 Reach Length: 370 ft. Landowner: Frederick Willard D Jr.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.59)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Extensive
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Residential, Natural Forest
LB Landuse: Pasture

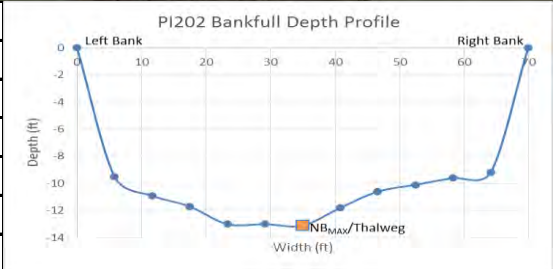
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47472 Longitude: -81.83076			County: Hardee Site Number: PI201 Reach Length: 1300 ft. Landowner: Frederick Willard D Jr.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.49)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.75	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: Low
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest



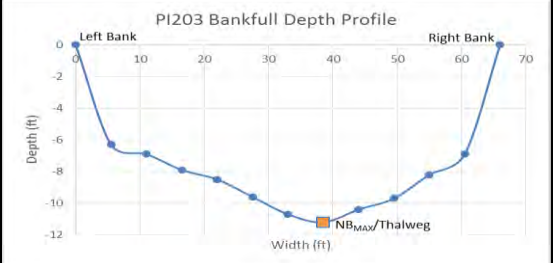




Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46955 Longitude: -81.83663			County: Hardee Site Number: PI202 Reach Length: 280 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (17.80)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		5.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

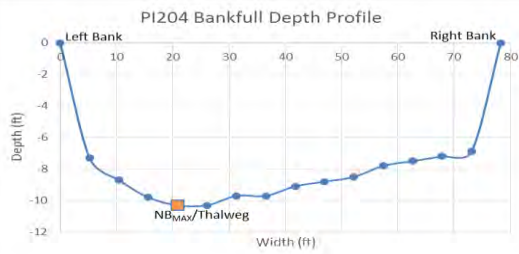


Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy-Clay
Near Bank Stress: Moderate
RB Landuse: Natural Forest
LB Landuse: Pasture, Road, Natural Forest



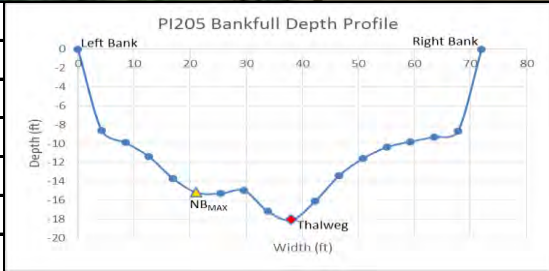


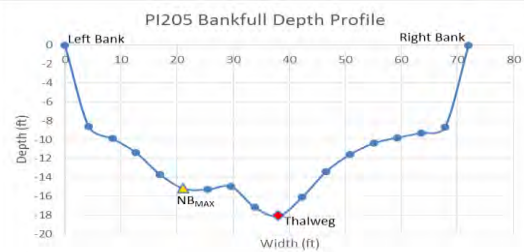
Peace River			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.47041 Longitude: -81.84447			County: Hardee Site Number: PI203 Reach Length: 340 ft. Landowner: 3-C Ranch Limited	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (26.46)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	No	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	20 ft.	0.75		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
Severity Scale:		6.0	Additional Site Features	
			Stream Channel Woody Material: Numerous	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Medium Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Natural Forest, Pasture	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				

Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46877 Longitude: -81.84647			County: Hardee Site Number: PI204 Reach Length: 330 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (24.28)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	<b>Additional Site Features</b>
Fish Passage Barrier:	None	0	Stream Channel Woody Material: Moderate
RB: Riparian Buffer:	100 ft.	0	Impoundments: None
LB: Riparian Buffer:	20 ft.	0.75	Substrate Composition: Medium Sand
RB: Floodplain Access:	Full	0	Bank Material: Sandy-Clay
LB: Floodplain Access:	Partial	0.25	Near Bank Stress: High
			RB Landuse: Natural Forest
	<b>Severity Scale:</b>	<b>6.0</b>	LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1 or 2			





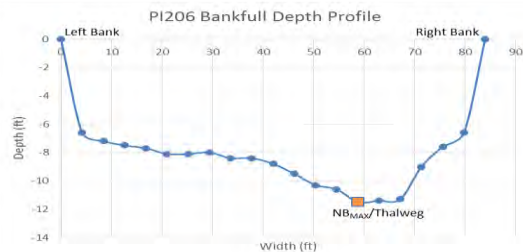




Peace River			Severity Scale: 5.25-Moderate																																														
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46925 Longitude: -81.84528			County: Hardee Site Number: PI205 Reach Length: 115 ft. Landowner: Ben Hill Griffin Inc.																																														
																																																	
<table><thead><tr><th>Risk Factor</th><th>Ranking</th><th>Score</th></tr></thead><tbody><tr><td>Pfankuch-Channel Stability:</td><td>Poor</td><td>1.5</td></tr><tr><td>Channel Alteration:</td><td>None</td><td>0</td></tr><tr><td>Bank Erosion:</td><td>Mass-wasting</td><td>1.5</td></tr><tr><td>BEHI:</td><td>Moderate (26.02)</td><td>0.5</td></tr><tr><td>Local NPSP:</td><td>Moderate Potential</td><td>1</td></tr><tr><td>Shoring Structures:</td><td>None</td><td>0</td></tr><tr><td>Pipe Discharge:</td><td>None</td><td>0</td></tr><tr><td>Water Odor:</td><td>Normal</td><td>0</td></tr><tr><td>Fish Passage Barrier:</td><td>None</td><td>0</td></tr><tr><td>RB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>LB: Riparian Buffer:</td><td>40 ft.</td><td>0.5</td></tr><tr><td>RB: Floodplain Access:</td><td>Full</td><td>0</td></tr><tr><td>LB: Floodplain Access:</td><td>Partial</td><td>0.25</td></tr><tr><td colspan="2">Severity Scale:</td><td>5.25</td></tr></tbody></table>			Risk Factor	Ranking	Score	Pfankuch-Channel Stability:	Poor	1.5	Channel Alteration:	None	0	Bank Erosion:	Mass-wasting	1.5	BEHI:	Moderate (26.02)	0.5	Local NPSP:	Moderate Potential	1	Shoring Structures:	None	0	Pipe Discharge:	None	0	Water Odor:	Normal	0	Fish Passage Barrier:	None	0	RB: Riparian Buffer:	100 ft.	0	LB: Riparian Buffer:	40 ft.	0.5	RB: Floodplain Access:	Full	0	LB: Floodplain Access:	Partial	0.25	Severity Scale:		5.25		
Risk Factor	Ranking	Score																																															
Pfankuch-Channel Stability:	Poor	1.5																																															
Channel Alteration:	None	0																																															
Bank Erosion:	Mass-wasting	1.5																																															
BEHI:	Moderate (26.02)	0.5																																															
Local NPSP:	Moderate Potential	1																																															
Shoring Structures:	None	0																																															
Pipe Discharge:	None	0																																															
Water Odor:	Normal	0																																															
Fish Passage Barrier:	None	0																																															
RB: Riparian Buffer:	100 ft.	0																																															
LB: Riparian Buffer:	40 ft.	0.5																																															
RB: Floodplain Access:	Full	0																																															
LB: Floodplain Access:	Partial	0.25																																															
Severity Scale:		5.25																																															
			<b>Additional Site Features</b>																																														
			Stream Channel Woody Material: Infrequent																																														
			Impoundments: None																																														
			Substrate Composition: Medium Sand																																														
			Bank Material: Sandy-Clay																																														
			Near Bank Stress: Low																																														
			RB Landuse: Natural Forest																																														
			LB Landuse: Pasture, Natural Forest																																														
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A																																																	
Restoration Option 2, low erosion rates due to clay and bedrock for the majority of the site, however beach area with rope swing should be stabilized on the upstream section																																																	

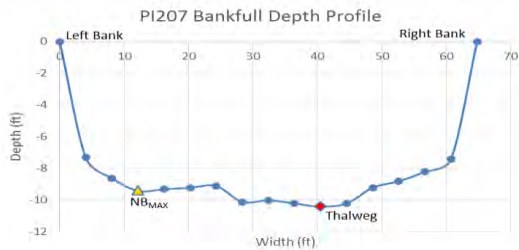




Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46711 Longitude: -81.84932			County: Hardee Site Number: PI206 Reach Length: 440 ft. Landowner: 3-C Ranch Limited
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.84)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46292 Longitude: -81.84989			County: Hardee Site Number: PI207 Reach Length: 100 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (24.91)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 2 or 3			



#### Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand



Bank Material: Medium Sand

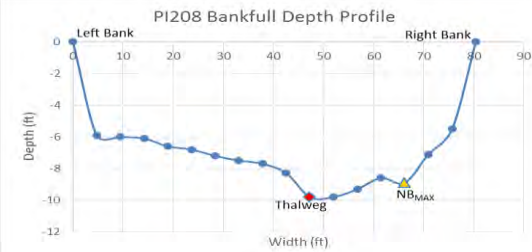
Near Bank Stress: Low

RB Landuse: Natural Forest, Pasture

LB Landuse: Pasture, Natural Forest



Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46318 Longitude: -81.85001			County: Hardee Site Number: PI208 Reach Length: 500 ft. Landowner: 3-C Ranch Limited
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.80)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



#### Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium Sand



Bank Material: Medium Sand

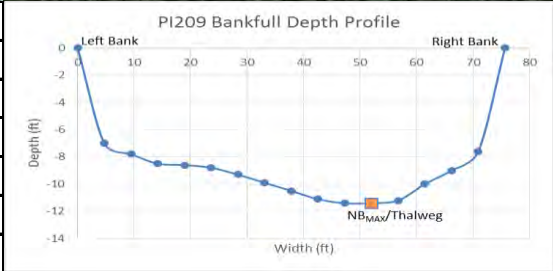
Near Bank Stress: Moderate

RB Landuse: Natural Forest, Pasture



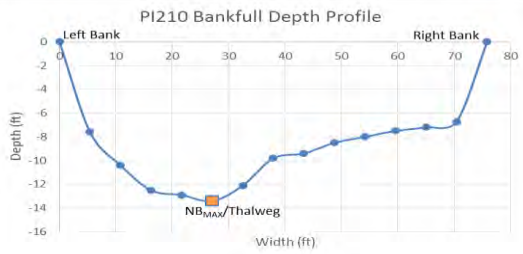
LB Landuse: Pasture, Natural Forest



Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.46065 Longitude: -81.84869			County: Hardee Site Number: PI209 Reach Length: 575 ft. Landowner: 3-C Ranch Limited*
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (34.03)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest

Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.4595 Longitude: -81.84586			County: Hardee Site Number: PI210 Reach Length: 310 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.80)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture
			LB Landuse: Natural Forest, Pasture
Restoration Option 1			



# Peace River

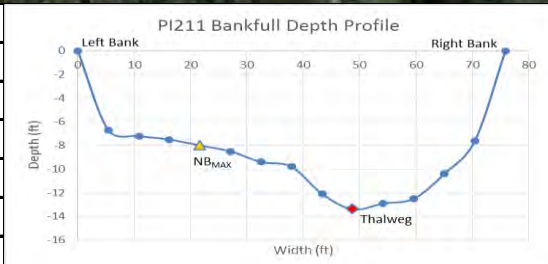
Severity Scale: 5.75-Moderate

Watershed: Peace River  
Subwatershed: Troublesome Creek  
Latitude: 27.45958  
Longitude: -81.84621

County: Hardee  
Site Number: PI211  
Reach Length: 240 ft.  
Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (22.60)	0.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	60 ft.	0.25
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>5.75</b>





## Additional Site Features

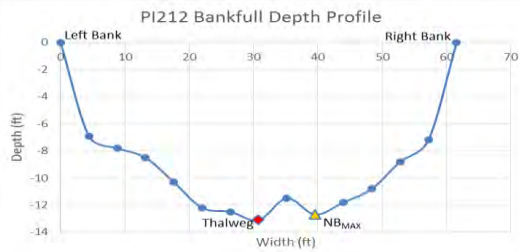
Stream Channel Woody Material: Numerous  
Impoundments: None  
Substrate Composition: Medium Sand  
Bank Material: Medium Sand  
Near Bank Stress: Low  
RB Landuse: Pasture  
LB Landuse: Natural Forest, Pasture



Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A

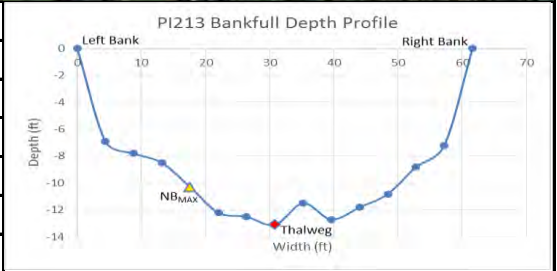
Restoration Option 2 or 3



Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.45934 Longitude: -81.84586			County: Hardee Site Number: PI212 Reach Length: 470 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.50)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Dominating Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





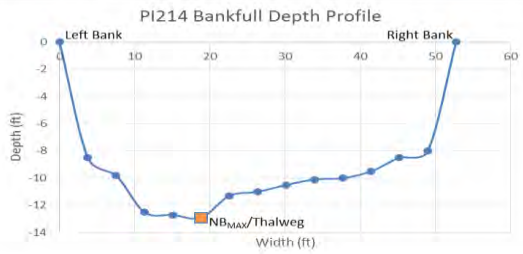
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.4603 Longitude: -81.84536			County: Hardee Site Number: PI213 Reach Length: 310 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.99)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 2 or 3			



Additional Site Features
Stream Channel Woody Material: Dominating
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest



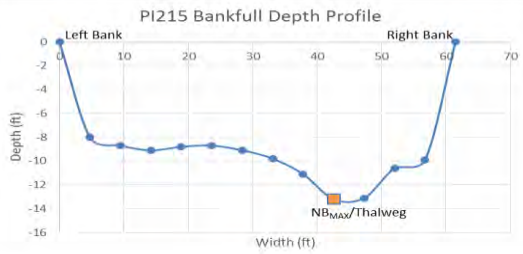




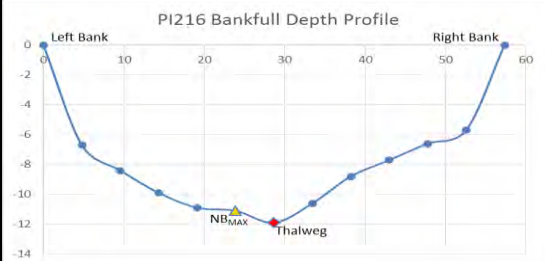
Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.45781 Longitude: -81.84464			County: Hardee Site Number: PI214 Reach Length: 1300 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.07)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





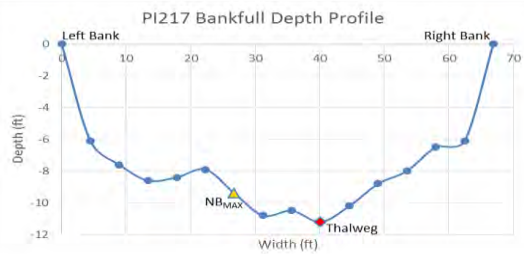
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest





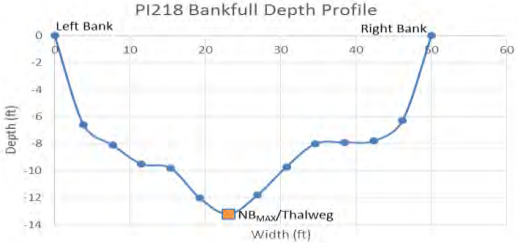
Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.45677 Longitude: -81.84559			County: Hardee Site Number: PI215 Reach Length: 270 ft. Landowner: Ben Hill Griffin Inc.*
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.21)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.25	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			



Peace River			Severity Scale: 6.5-Moderate		
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.45237 Longitude: -81.84543			County: Hardee Site Number: PI216 Reach Length: 310 ft. Landowner: Mosaic Fertilizer LLC		
					
Risk Factor	Ranking	Score			
Pfankuch-Channel Stability:	Poor	1.5			
Channel Alteration:	None	0			
Bank Erosion:	Mass-wasting	1.5			
BEHI:	High (34.21)	1			
Local NPSP:	Obvious Sources	1.5			
Shoring Structures:	None	0			
Pipe Discharge:	None	0			
Water Odor:	Normal	0			
Fish Passage Barrier:	None	0			
RB: Riparian Buffer:	40 ft.	0.5			
LB: Riparian Buffer:	60 ft.	0.25			
RB: Floodplain Access:	Partial	0.25			
LB: Floodplain Access:	Full	0			
Severity Scale:		6.5	Additional Site Features		
			Stream Channel Woody Material: Moderate		
			Impoundments: None		
			Substrate Composition: Medium Sand		
			Bank Material: Medium Sand		
			Near Bank Stress: Moderate		
			RB Landuse: Pasture, Natural Forest		
			LB Landuse: Natural Forest, Pasture		
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A					
Restoration Option 1					

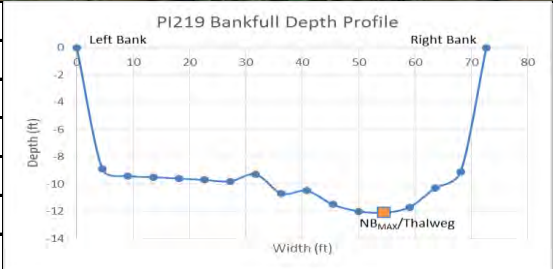


Peace River			Severity Scale: 5.5-Moderate	
Watershed: Peace River Subwatershed: Troublsome Creek Latitude: 27.44989 Longitude: -81.8479			County: Hardee Site Number: PI217 Reach Length: 480 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (23.93)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.5	Additional Site Features	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			Stream Channel Woody Material: Extensive	
Restoration Option 1			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Medium Sand	
			Near Bank Stress: Low	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Natural Forest, Pasture	





Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44898 Longitude: -81.84872			County: Hardee Site Number: PI218 Reach Length: 163 ft. Landowner: Mosaic Fertilizer LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.81)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Medium Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>6.0</b>	LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

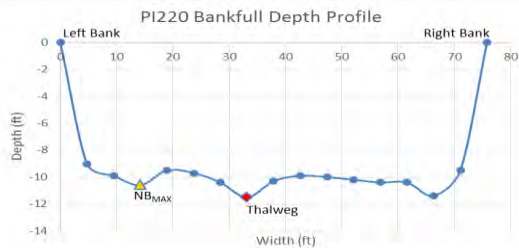
Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44765 Longitude: -81.84893			County: Hardee Site Number: PI219 Reach Length: 110 ft. Landowner: Mosaic Fertilizer LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (18.34)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Medium Sand
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Pasture, Natural Forest



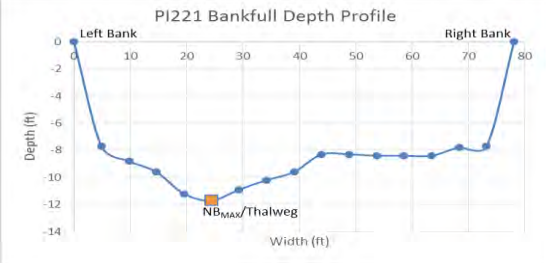




Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44713 Longitude: -81.84915			County: Hardee Site Number: PI220 Reach Length: 500 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (20.02)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

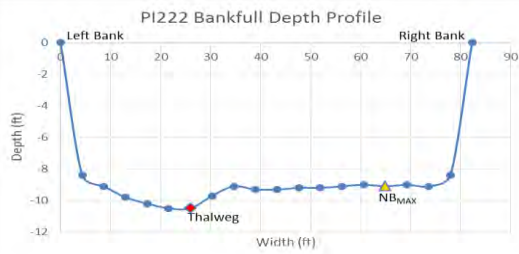


Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

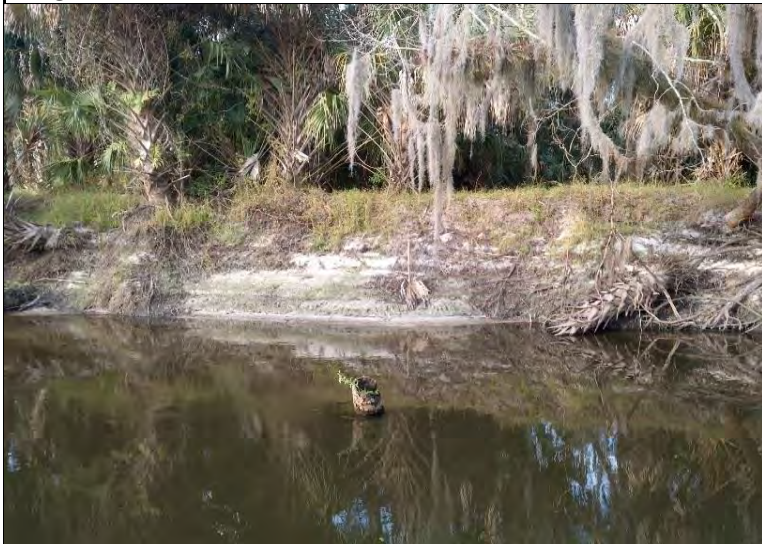

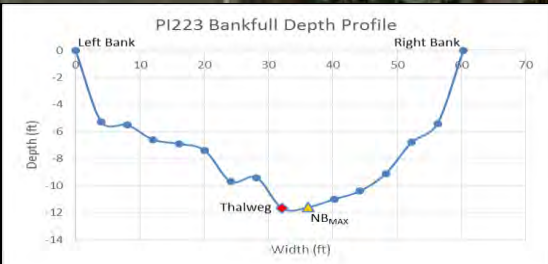


Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44525 Longitude: -81.84908			County: Hardee Site Number: PI221 Reach Length: 95 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (21.98)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Restoration Option 1			



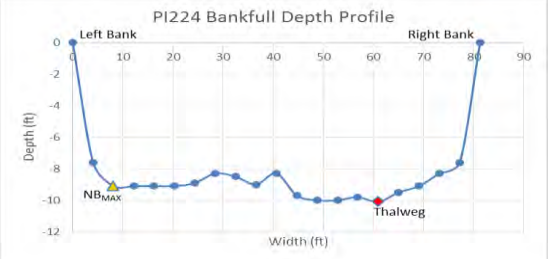
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44486 Longitude: -81.84874			County: Hardee Site Number: PI222 Reach Length: 103 ft. Landowner: Mosaic Fertilizer LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (20.26)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Low RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			





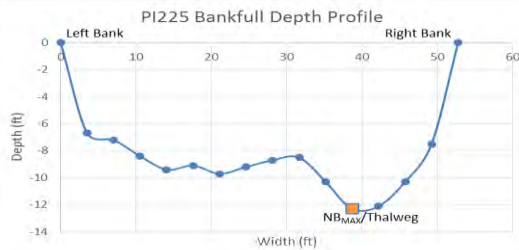


Peace River			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44345 Longitude: -81.84898			County: Hardee Site Number: PI223 Reach Length: 340 ft. Landowner: Mosaic Fertilizer LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (26.70)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		6.0	Additional Site Features	
			Stream Channel Woody Material: Numerous	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Medium Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Pasture, Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				





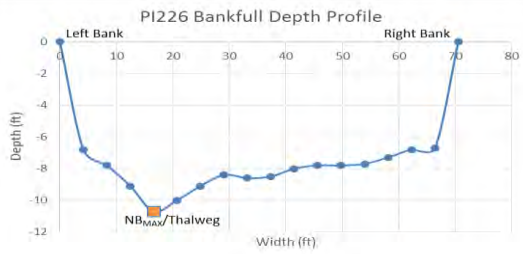
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44236 Longitude: -81.84879			County: Hardee Site Number: PI224 Reach Length: 110 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (22.93)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 2 or 3			

Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.44063 Longitude: -81.85172			County: Hardee Site Number: PI225 Reach Length: 400 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.69)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1, due to a recent river avulsion, the best course of action would be to stabilize one channel (would need to increase bankfull cross-sectional area) and create wetland habitat with the other channel			





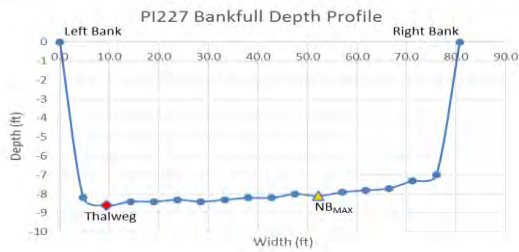
Additional Site Features
Stream Channel Woody Material: Dominating
Impoundments: Woody Material Jams
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest





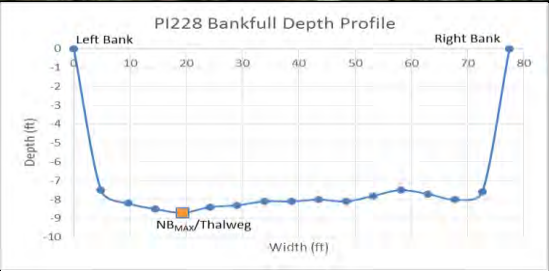
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43903 Longitude: -81.85005			County: Hardee Site Number: PI226 Reach Length: 180 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (25.83)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Infrequent
Restoration Option 1			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest





Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43796 Longitude: -81.84948			County: Hardee Site Number: PI227 Reach Length: 250 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.45)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Low RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			

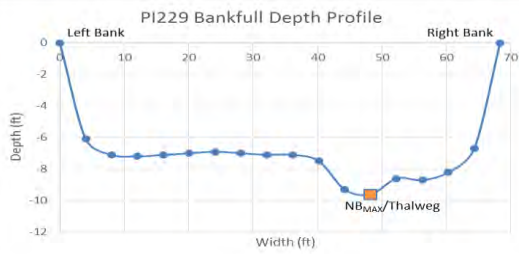


Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43678 Longitude: -81.85035			County: Hardee Site Number: PI228 Reach Length: 115 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.82)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: High RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





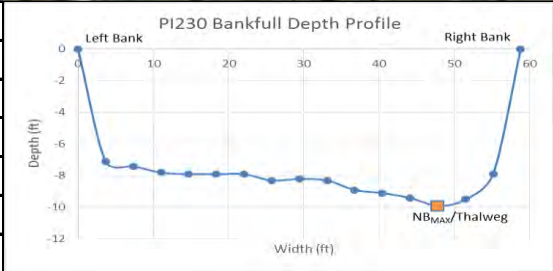


Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43516 Longitude: -81.85123			County: Hardee Site Number: PI229 Reach Length: 240 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.69)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Dominating Impoundments: Woody Material Jams Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





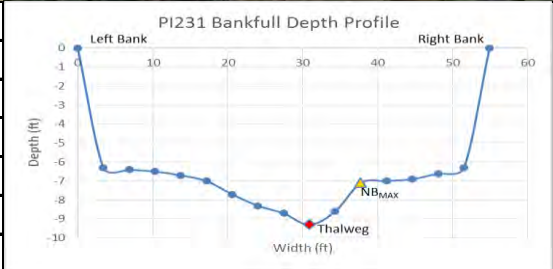


Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.43205 Longitude: -81.84804			County: Hardee Site Number: PI230 Reach Length: 215 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.52)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





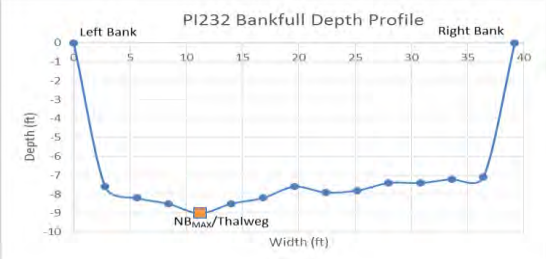
Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42975 Longitude: -81.85018			County: Hardee Site Number: PI231 Reach Length: 80 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (30.90)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





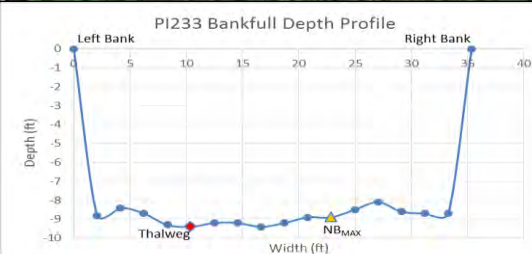
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest




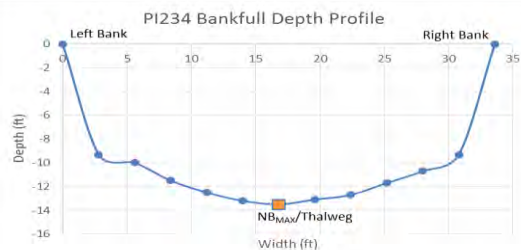
Prairie Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02671 Longitude: -81.87023			County: Charlotte Site Number: PI232 Reach Length: 361 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.25)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			Additional Site Features
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 1			



Prairie Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02689 Longitude: -81.87008			County: Charlotte Site Number: PI233 Reach Length: 57 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.63)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	20 ft.	0.75	Bank Material: Medium Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Low
LB: Floodplain Access:	Full	0	RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>6.0</b>	LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			



Prairie Creek			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02649 Longitude: -81.87019 *NO PHOTOS			County: Charlotte Site Number: PI234 Reach Length: 38 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.09)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.25</b>	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			



## Prairie Creek

Severity Scale: 4.75-Moderate

Watershed: Peace River

Subwatershed: Lower Prairie Creek

Latitude: 27.02637

Longitude: -81.8706

County: Charlotte

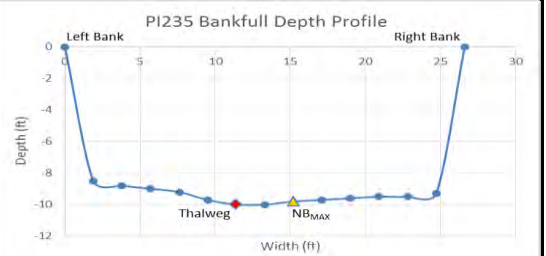
Site Number: PI235

Reach Length: 56 ft.

Landowner: Charlotte County



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (24.39)	0.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>4.75</b>



### Additional Site Features

Stream Channel Woody Material: Infrequent

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Medium Sand

Near Bank Stress: Low


RB Landuse: Natural Forest, Pasture

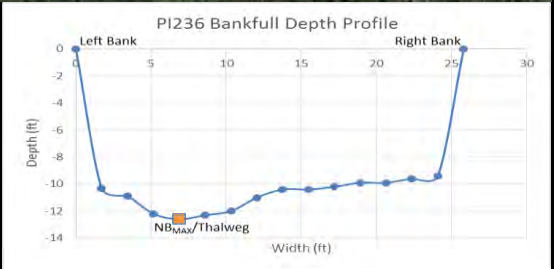
LB Landuse: Natural Forest

Notes: 303d: Impaired - Public Water Supply (DO & TDS)



Restoration Option 2 or 3

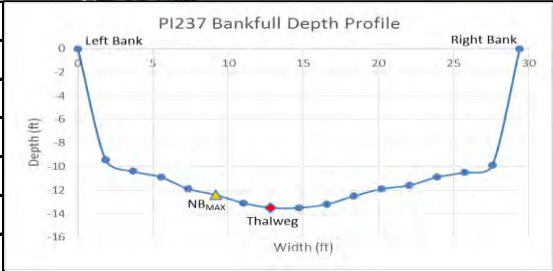


Prairie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02628 Longitude: -81.87071 *NO PHOTOS			County: Charlotte Site Number: PI236 Reach Length: 167 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.91)	0.5	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.0	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			



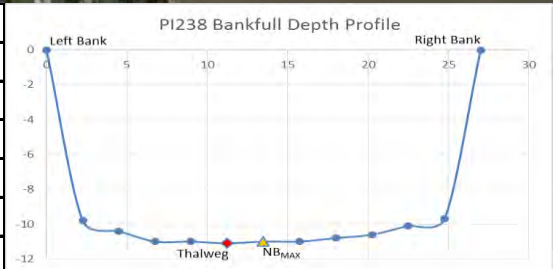


Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Pasture



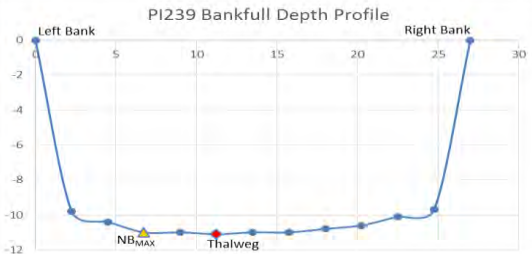
Prairie Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02512 Longitude: -81.87305			County: Charlotte Site Number: PI237 Reach Length: 544 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (40.07)	1.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.75</b>	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			





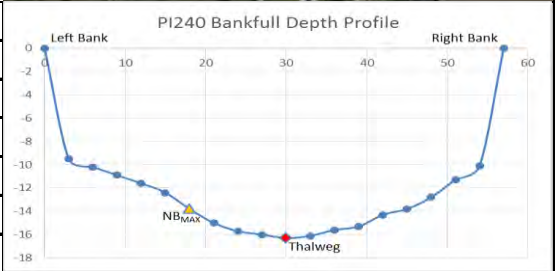
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest

Prairie Creek			Severity Scale: 5.0-Moderate	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02537 Longitude: -81.87377			County: Charlotte Site Number: PI238 Reach Length: 163 ft. Landowner: Charlotte County	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (30.80)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Dominating Impoundments: Woody Material Jams Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Low RB Landuse:Natural Forest, Pasture LB Landuse: Natural Forest	
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.0		
Notes: 303d: Impaired - Public Water Supply (DO & TDS)				
Restoration Option 1				





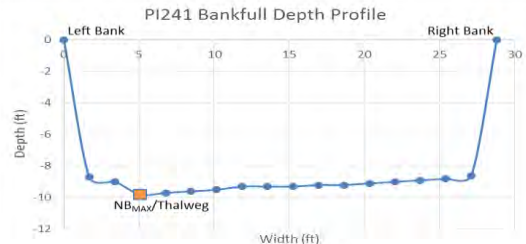
Prairie Creek			Severity Scale: 5.0-Moderate		
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02525 Longitude: -81.87362			County: Charlotte Site Number: PI239 Reach Length: 324 ft. Landowner: Charlotte County		
					
Risk Factor	Ranking	Score			
Pfankuch-Channel Stability:	Fair	1			
Channel Alteration:	None	0			
Bank Erosion:	Active	1			
BEHI:	High (31.23)	1			
Local NPSP:	Obvious Sources	1.5			
Shoring Structures:	None	0			
Pipe Discharge:	None	0			
Water Odor:	Normal	0			
Fish Passage Barrier:	None	0			
RB: Riparian Buffer:	40 ft.	0.5			
LB: Riparian Buffer:	100 ft.	0			
RB: Floodplain Access:	Full	0			
LB: Floodplain Access:	Full	0			
Severity Scale:		5.0			
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			Additional Site Features		
			Stream Channel Woody Material: Dominating		
			Impoundments: Woody Material Jams		
			Substrate Composition: Medium Sand		
			Bank Material: Medium Sand		
			Near Bank Stress: Moderate		
			RB Landuse: Natural Forest, Pasture		
			LB Landuse: Natural Forest		
Restoration Option 1					

Prairie Creek			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02578 Longitude: -81.87451			County: Charlotte Site Number: PI240 Reach Length: 168 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (29.59)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		5.25	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			



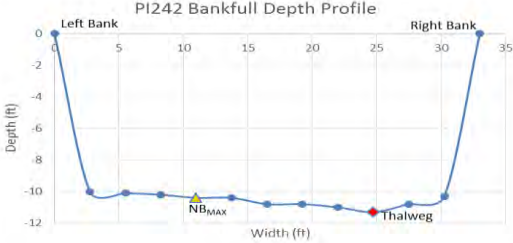


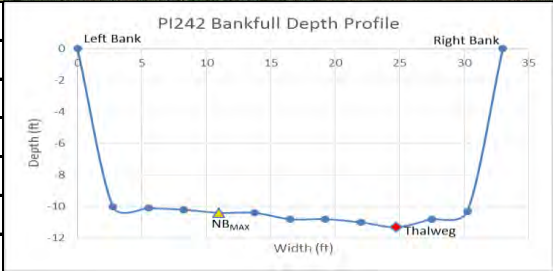
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: Low
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest



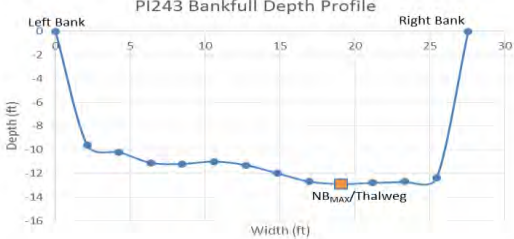


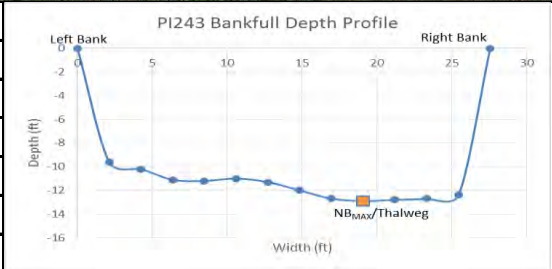
Prairie Creek			Severity Scale: 5.0-Moderate	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02535 Longitude: -81.8748			County: Charlotte Site Number: PI241 Reach Length: 320 ft. Landowner: Charlotte County	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (23.99)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b>	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
<b>Severity Scale:</b>			Bank Material: Medium Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest, Pasture	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)				
Restoration Option 1				





Prairie Creek			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02417 Longitude: -81.87665			County: Charlotte Site Number: PI242 Reach Length: 86 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (38.22)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate
RB: Floodplain Access:	Full	0	Impoundments: None
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand
<b>Severity Scale:</b>			Bank Material: Medium Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 2 or 3			

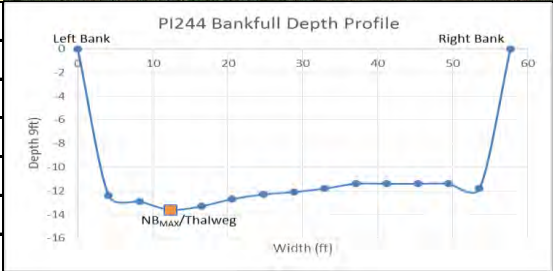


Prairie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02417 Longitude: -81.87665			County: Charlotte Site Number: PI243 Reach Length: 61 ft. Landowner: Charlotte County	
				
Risk Factor	Ranking	Score	<div>PI243 Bankfull Depth Profile</div> 	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (27.66)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Partial	0.25	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Pasture, Natural Forest	
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>3.5</b>		
Notes: 303d: Impaired - Public Water Supply (DO & TDS)				
Restoration Option 1				







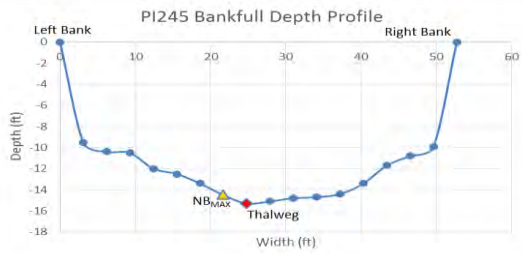
Prairie Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02369 Longitude: -81.87673			County: Charlotte Site Number: PI244 Reach Length: 205 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (38.5)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.5	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			



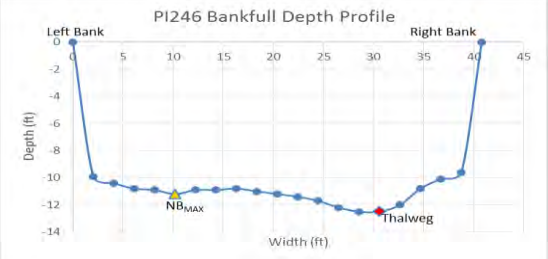


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Medium Sand
Near Bank Stress: High
RB Landuse: Natural Forest
LB Landuse: Natural Forest



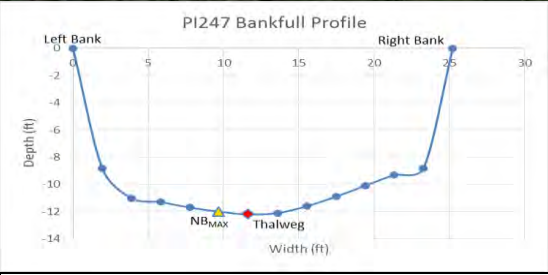


Prairie Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02447 Longitude: -81.87859			County: Charlotte Site Number: PI245 Reach Length: 414 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.27)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Moderate RB Landuse: Natural Forest LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			



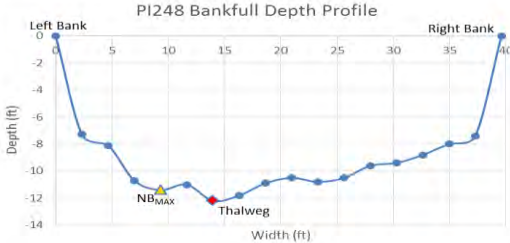




Prairie Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.0231 Longitude: -81.87903			County: Charlotte Site Number: PI246 Reach Length: 460 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.55)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: Woody Material Jams
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			

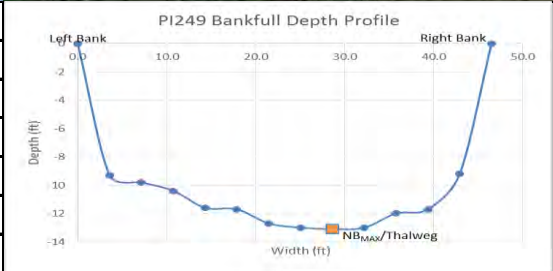


Prairie Creek			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02211 Longitude: -81.88142			County: Charlotte Site Number: PI247 Reach Length: 393 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.36)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			





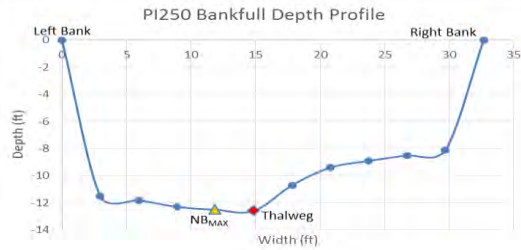
Prairie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02118 Longitude: -81.88196			County: Charlotte Site Number: PI248 Reach Length: 57 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (33.60)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	Additional Site Features
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.0	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			Stream Channel Woody Material: Dominating
Restoration Option 1			Impoundments: Woody Material Jams
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Pasture

Prairie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.02103 Longitude: -81.8821			County: Charlotte Site Number: PI249 Reach Length: 210 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.89)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.0</b>	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			





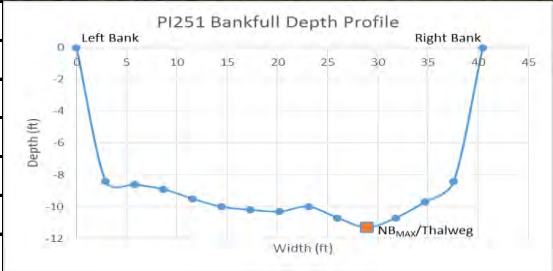
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest
LB Landuse: Natural Forest





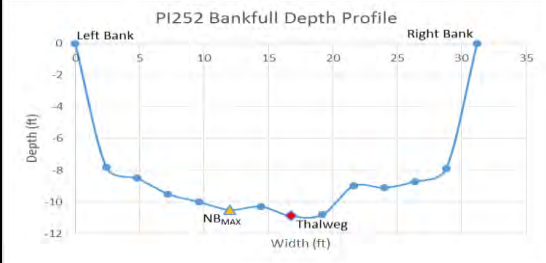
Prairie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.0203 Longitude: -81.88099			County: Charlotte Site Number: PI250 Reach Length: 264 ft. Landowner: Charlotte County	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (34.69)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.5	Additional Site Features	
			Stream Channel Woody Material: Numerous	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)				
Restoration Option 1				





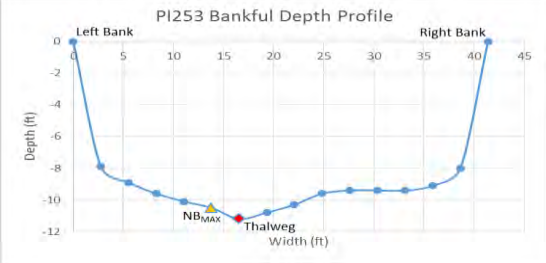
Prairie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.01931 Longitude: -81.88133			County: Charlotte Site Number: PI251 Reach Length: 36 ft. Landowner: Charlotte County
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (34.05)	1	
Local NPSP:	No evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.0	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			





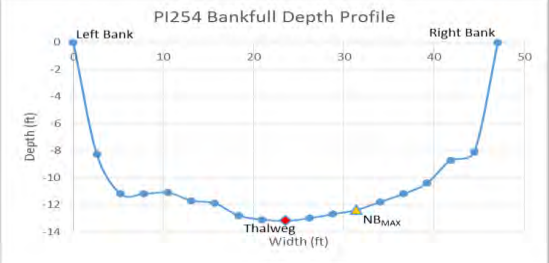
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest
LB Landuse: Natural Forest



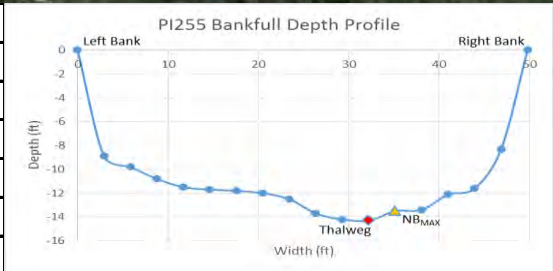
Prairie Creek			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.01929 Longitude: -81.88097			County: Charlotte Site Number: PI252 Reach Length: 165 ft. Landowner: Charlotte County	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (35.10)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.75	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sandstone, Shell Aggregate	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)				
Restoration Option 1				

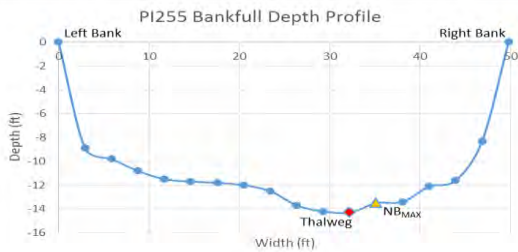




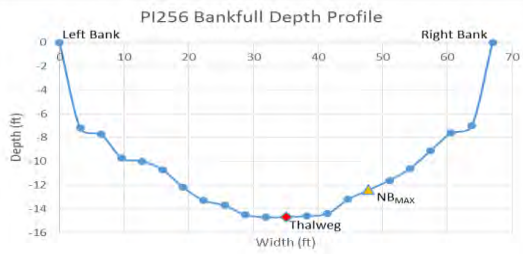
Prairie Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.01786 Longitude: -81.8841			County: Charlotte Site Number: PI253 Reach Length: 41 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (41.84)	1.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.5	Additional Site Features
Notes: 303d: Impaired - Public Water Supply (DO & TDS)  Restoration Option 1			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Pasture





Prairie Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: -81.88432 Longitude: 27.0167			County: Charlotte Site Number: PI254 Reach Length: 105 ft. Landowner: Charlotte County
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (41.65)	1.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & TDS)			
Restoration Option 1			

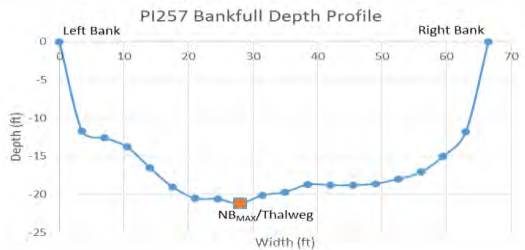
Prairie Creek			Severity Scale: 4.25-Moderate	
Watershed: Peace River Subwatershed: Lower Prarie Creek Latitude: 27.01337 Longitude: -81.8848			County: Charlotte Site Number: PI255 Reach Length: 156 ft. Landowner: Charlotte County	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (29.41)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	Present	1.5		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Partial	0.25	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
<b>Severity Scale: 4.25</b>			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Public Water Supply (DO & TDS)				
Restoration Option 1				



Shell Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Middle Shell Creek Latitude: 26.96852 Longitude: -81.87551			County: Charlotte Site Number: PI256 Reach Length: 104 ft. Landowner: Maria Tibol & MAZ TRS & MT
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.28)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Power Lines
Notes: 303d: Impaired – Chloride, DO, Specific Conductivity and TDS			
Restoration Option 2 or 3			



Shell Creek			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Middle Shell Creek Latitude: 26.96332 Longitude: -81.86494			County: Charlotte Site Number: PI257 Reach Length: 9 ft. Landowner: Brian & Mary M Presley
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (32.93)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.5</b>	
Notes: 303d: Impaired – Chloride, DO, Specific Conductivity and TDS			
Restoration Option 1			



#### Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None



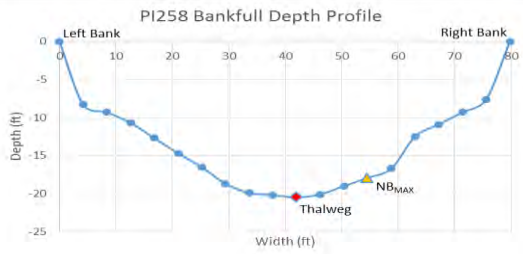
Substrate Composition: Medium Sand

Bank Material: Sand



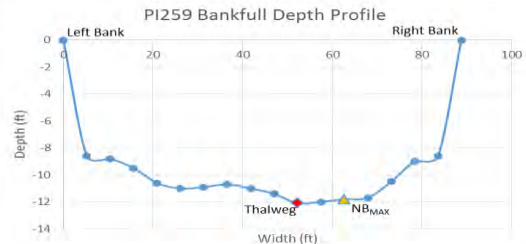
Near Bank Stress: Moderate

RB Landuse: Natural Forest



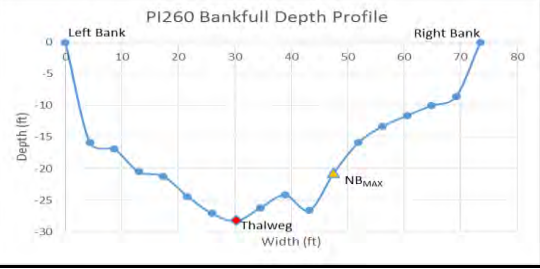
LB Landuse: Natural Forest



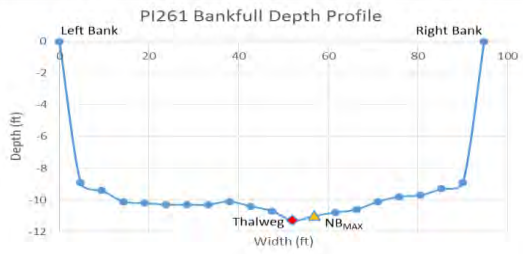
Shell Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Middle Shell Creek Latitude: 26.97573 Longitude: -81.88478			County: Charlotte Site Number: PI258 Reach Length: 60 ft. Landowner: Robert W Hall Sr
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.08)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	
Notes: 303d: Impaired – Chloride, DO, Specific Conductivity and TDS			
Restoration Option 1			



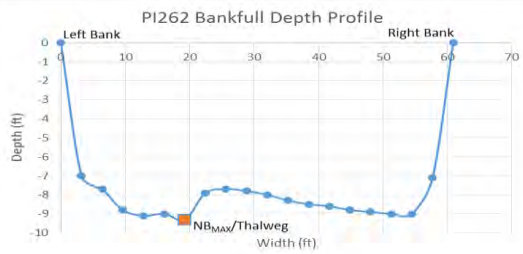


Peace River			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.30646 Longitude: -81.84203			County: DeSoto Site Number: PI259 Reach Length: Landowner: E & D Ranch LLP	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (28.20)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture	
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>4.0</b>		
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				



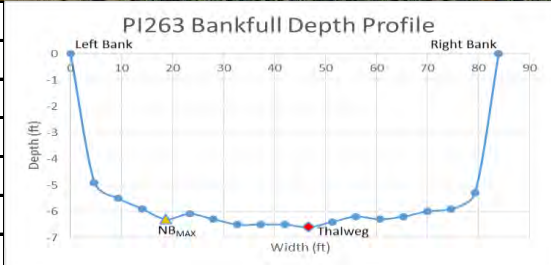


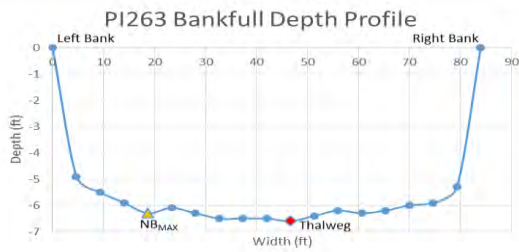
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.3222 Longitude: -81.83658			County: DeSoto Site Number: PI260 Reach Length: 270 ft. Landowner: E & D Ranch LLP
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (43.01)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: None
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2 or 3			



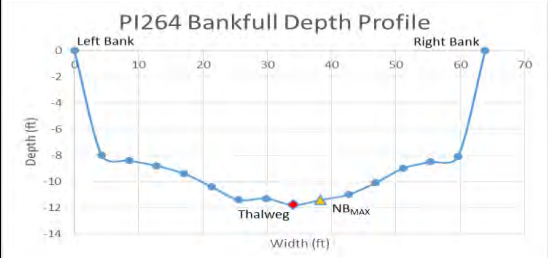
Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.33465 Longitude: -81.83554			County: DeSoto Site Number: PI261 Reach Length: 100 ft. Landowner: E & D Ranch LLP
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.52)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2 or 3			

Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.35728 Longitude: -81.82603			County: Hardee Site Number: PI262 Reach Length: 285 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.66)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	Additional Site Features
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.0	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Moderate
Restoration Option 1			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Pasture, Natural Forest



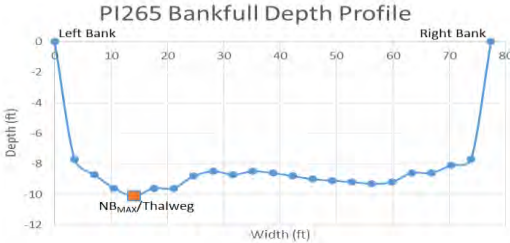


Peace River			Severity Scale: 5.0-Moderate																						
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.36113 Longitude: -81.82877			County: Hardee Site Number: PI263 Reach Length: 150 ft. Landowner: Ben Hill Griffin Inc.																						
																									
Risk Factor	Ranking	Score	 <p>PI263 Bankfull Depth Profile</p> <table border="1"><thead><tr><th>Width (ft)</th><th>Depth (ft)</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>10</td><td>-1.5</td></tr><tr><td>20</td><td>-2.5</td></tr><tr><td>30</td><td>-3.5</td></tr><tr><td>40</td><td>-4.5</td></tr><tr><td>50</td><td>-5.5</td></tr><tr><td>60</td><td>-6.5</td></tr><tr><td>70</td><td>-6.5</td></tr><tr><td>80</td><td>-5.5</td></tr><tr><td>90</td><td>0</td></tr></tbody></table>	Width (ft)	Depth (ft)	0	0	10	-1.5	20	-2.5	30	-3.5	40	-4.5	50	-5.5	60	-6.5	70	-6.5	80	-5.5	90	0
Width (ft)	Depth (ft)																								
0	0																								
10	-1.5																								
20	-2.5																								
30	-3.5																								
40	-4.5																								
50	-5.5																								
60	-6.5																								
70	-6.5																								
80	-5.5																								
90	0																								
Pfankuch-Channel Stability:	Good	0																							
Channel Alteration:	None	0																							
Bank Erosion:	Active	1																							
BEHI:	Moderate (22.16)	0.5																							
Local NPSP:	Obvious Sources	1.5																							
Shoring Structures:	Present	1.5																							
Pipe Discharge:	None	0																							
Water Odor:	Normal	0																							
Fish Passage Barrier:	None	0																							
RB: Riparian Buffer:	100 ft.	0																							
LB: Riparian Buffer:	40 ft.	0.5																							
RB: Floodplain Access:	Full	0																							
LB: Floodplain Access:	Full	0																							
Severity Scale:		5.0	Additional Site Features																						
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Infrequent																						
Restoration Option 2 or 3			Impoundments: None																						
			Substrate Composition: Medium Sand																						
			Bank Material: Sand																						
			Near Bank Stress: Low																						
			RB Landuse: Natural Forest																						
			LB Landuse: Pasture, Natural Forest																						



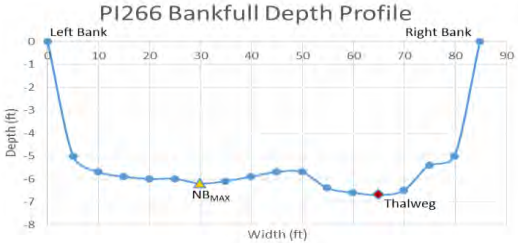




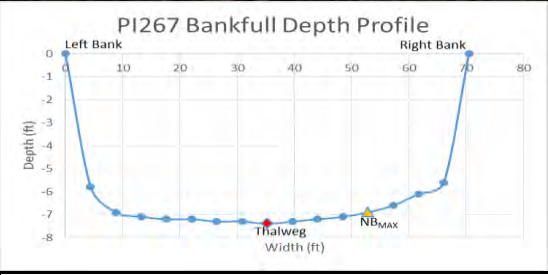
Peace River			Severity Scale: 4.5-Moderate	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.36189 Longitude: -81.8299			County: Hardee Site Number: PI264 Reach Length: 132 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (36.07)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>4.5</b>		
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				





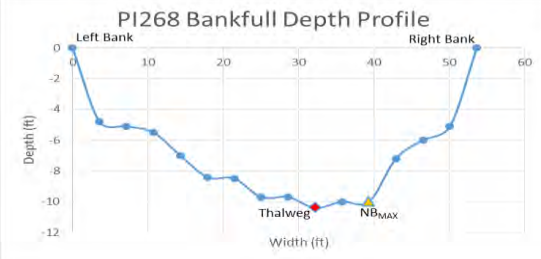
Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.36525 Longitude: -81.82954			County: Hardee Site Number: PI265 Reach Length: 84 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	<div> PI265 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.41)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.5	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Pasture, Natural Forest
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





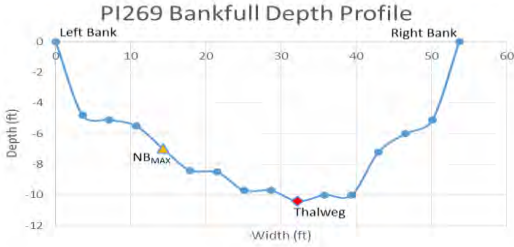
Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.3664 Longitude: -81.8320			County: Hardee Site Number: PI266 Reach Length: 223 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	<div> PI266 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.56)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.0</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 2 or 3			



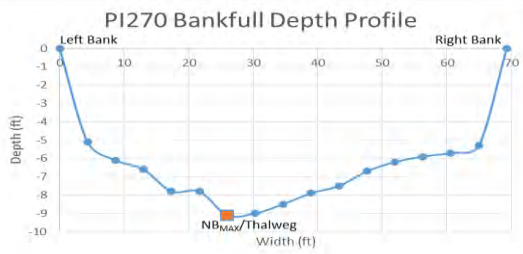
Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38165 Longitude: -81.84265			County: Hardee Site Number: PI267 Reach Length: 133 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.98)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			





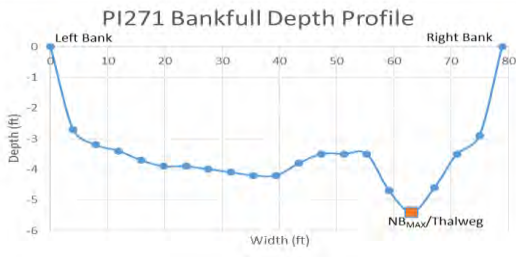
Peace River			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38308 Longitude: -81.84419			County: Hardee Site Number: PI268 Reach Length: 41 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (39.22)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
			Additional Site Features
RB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Infrequent
LB: Riparian Buffer:	40 ft.	0.5	Impoundments: None
RB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand
LB: Floodplain Access:	Full	0	Bank Material: Sand
<b>Severity Scale:</b>			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





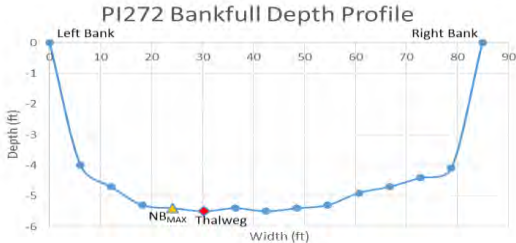
Peace River			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38308 Longitude: -81.84419			County: Hardee Site Number: PI269 Reach Length: 15 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.48)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.75	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Infrequent
Restoration Option 2 or 3			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest



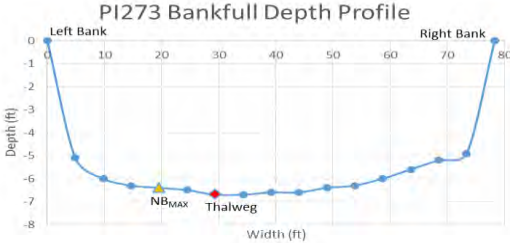
Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38608 Longitude: -81.84283			County: Hardee Site Number: PI270 Reach Length: 62 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (39.45)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>6.5</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture
			LB Landuse: Pasture, Natural Forest
Restoration Option 1			





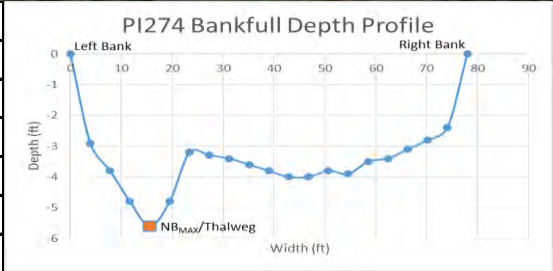
Peace River			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38706 Longitude: -81.84448			County: Hardee Site Number: PI271 Reach Length: 120 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.65)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b>
LB: Riparian Buffer:	0 ft.	0.75	Stream Channel Woody Material: Infrequent
RB: Floodplain Access:	Full	0	Impoundments: None
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand
Severity Scale: 7.0			Bank Material: Sandy Clay
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38725 Longitude: -81.8442			County: Hardee Site Number: PI272 Reach Length: 215 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	<div> PI272 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.27)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			



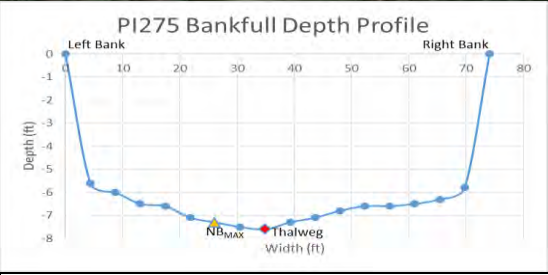
Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.38901 Longitude: -81.84394			County: Hardee Site Number: PI273 Reach Length: 590 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	<div> PI273 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (35.96)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.75	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Pasture, Natural Forest LB Landuse: Pasture
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



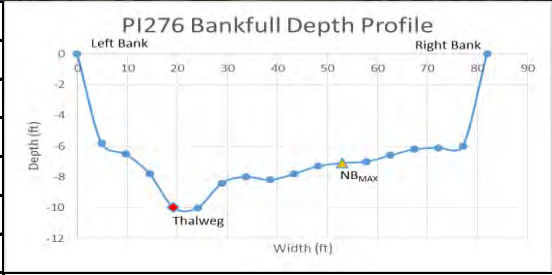
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39185 Longitude: -81.84601			County: Hardee Site Number: PI274 Reach Length: 174 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (28.81)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.25	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





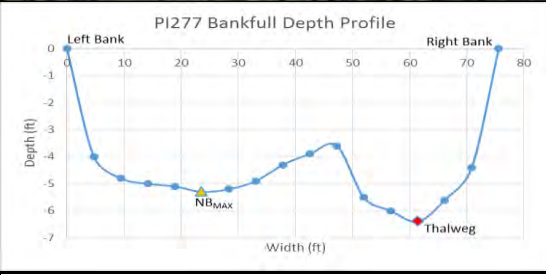
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy-clay
Near Bank Stress: High
RB Landuse: Pasture
LB Landuse: Natural Forest, Pasture




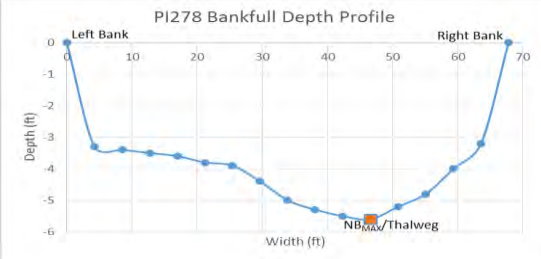
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39462 Longitude: -81.84632			County: Hardee Site Number: PI275 Reach Length: 257 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.25)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 2 or 3			



Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39579 Longitude: -81.84644			County: Hardee Site Number: PI276 Reach Length: 134 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.49)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			

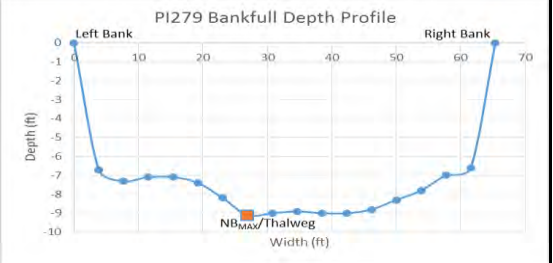


Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39664 Longitude: -81.8479			County: Hardee Site Number: PI277 Reach Length: 97 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.31)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			





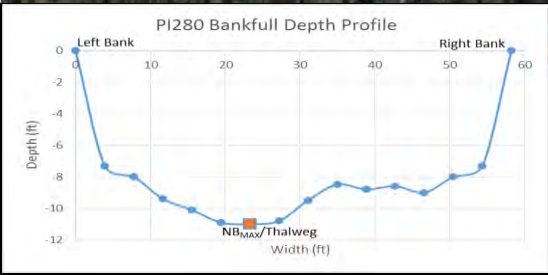
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.49305 Longitude: -81.81644			County: Hardee Site Number: PI278 Reach Length: 62 ft. Landowner: M & R Cattle Co. LLC
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.00)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Natural Forest, Residential
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42937 Longitude: -81.84982			County: Hardee Site Number: PI279 Reach Length: 325 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (22.72)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





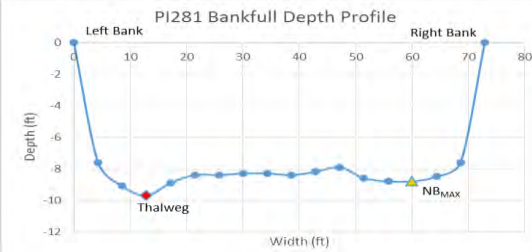
Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest





Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42822 Longitude: -81.84991			County: Hardee Site Number: PI280 Reach Length: 165 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (18.84)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b>
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate
RB: Floodplain Access:	Full	0	Impoundments: None
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand
<b>Severity Scale:</b>			Bank Material: Sand / Clay
<b>5.0</b>			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

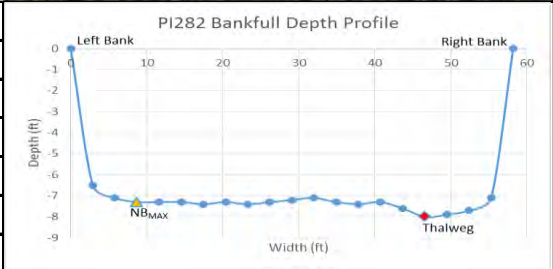


Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42861 Longitude: -81.84974			County: Hardee Site Number: PI281 Reach Length: 16 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.76)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			





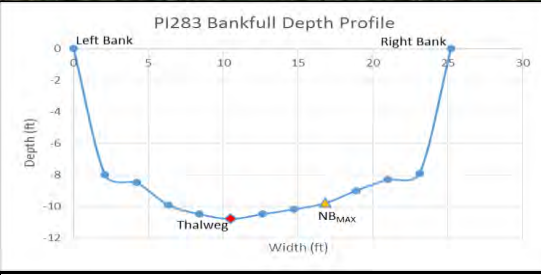
Additional Site Features	
Stream Channel Woody Material:	Moderate
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	Low
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Pasture, Natural Forest

Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42174 Longitude: -81.85343			County: Hardee Site Number: PI282 Reach Length: 85 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.30)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1, restoration should be done in conjunction with sites PI087, PI283-288			



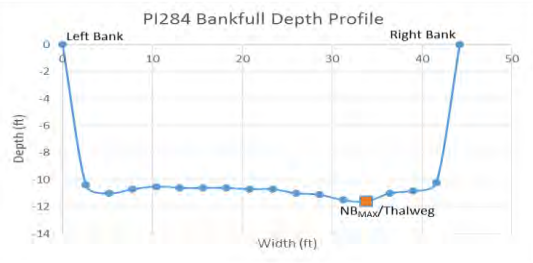




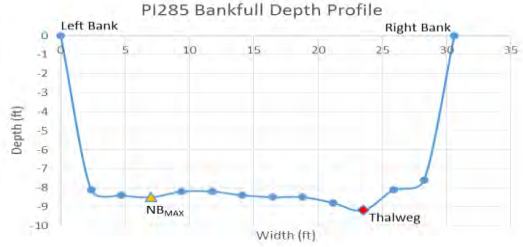
Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	Low
RB Landuse:	Natural Forest
LB Landuse:	Pasture, Natural Forest





Peace River			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42173 Longitude: -81.85307			County: Hardee Site Number: PI283 Reach Length: 135 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.84)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>3.25</b>	
			Additional Site Features
			Stream Channel Woody Material: Dominating
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1, restoration should be done in conjunction with sites PI087, PI282-288			

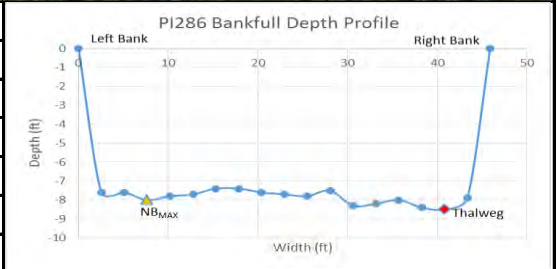


Peace River			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42171 Longitude: -81.85235			County: Hardee Site Number: PI284 Reach Length: 450 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (29.60)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.5		
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Additional Site Features	
Restoration Option 1, restoration should be done in conjunction with sites PI087, PI282-288			Stream Channel Woody Material: Dominating	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest, Pasture	

Peace River			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42206 Longitude: -81.85304			County: Hardee Site Number: PI285 Reach Length: 120 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (22.53)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Dominating
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Natural Forest, Pasture
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1, restoration should be done in conjunction with sites PI087, PI282-288			





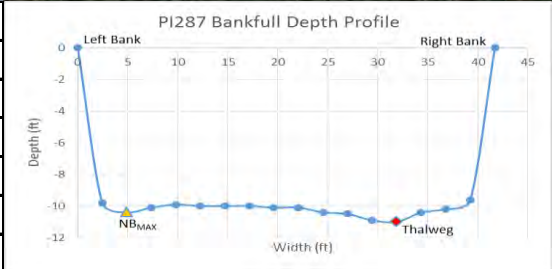
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42178 Longitude: -81.85225			County: Hardee Site Number: PI286 Reach Length: 170 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.41)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	80 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.25</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1, restoration should be done in conjunction with sites PI087, PI282-288			





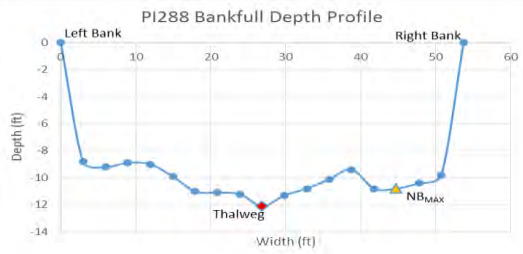
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Pasture





Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42199 Longitude: -81.85188			County: Hardee Site Number: PI287 Reach Length: 335 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (33.76)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.5</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1, restoration should be done in conjunction with sites PI087, PI282-288			

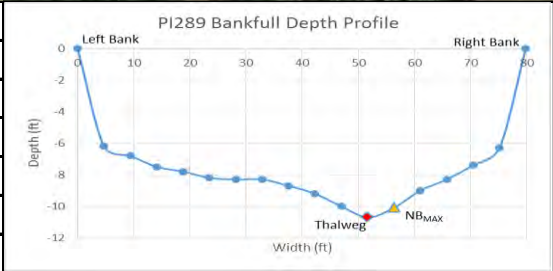


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Pasture

Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.42139 Longitude: -81.85374			County: Hardee Site Number: PI288 Reach Length: 160 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (24.99)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	80 ft.	0.25	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.5</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy Clay
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Restoration Option 1, restoration should be done in conjunction with sites PI087, PI282-288			



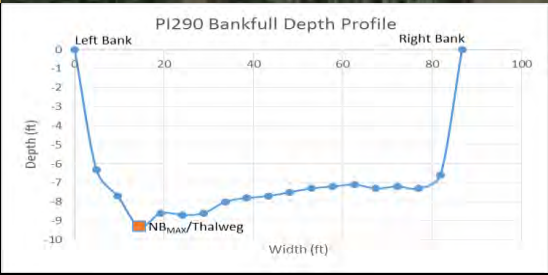




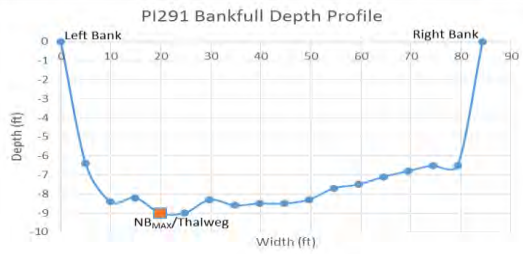
Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41963 Longitude: -81.84834			County: Hardee Site Number: PI289 Reach Length: 250 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.64)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.5</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2			





Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Pasture

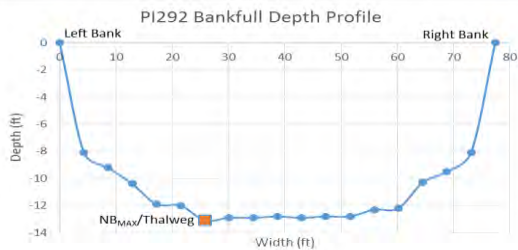


Peace River			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41915 Longitude: -81.84752			County: Hardee Site Number: PI290 Reach Length: 165 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (31.66)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		4.0	Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Very High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Pasture, Natural Forest	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				

Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41553 Longitude: -81.84734			County: Hardee Site Number: PI291 Reach Length: 95 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (33.70)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.25	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



Peace River			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41813 Longitude: -81.84702			County: Hardee Site Number: PI292 Reach Length: 170 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.02)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	Not Present	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.75</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue), private unpaved road crossing downstream of site, some woody debris build up on bridge pilings, no major issues with structure			
Restoration Option 1			



#### Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand



Bank Material: Sand

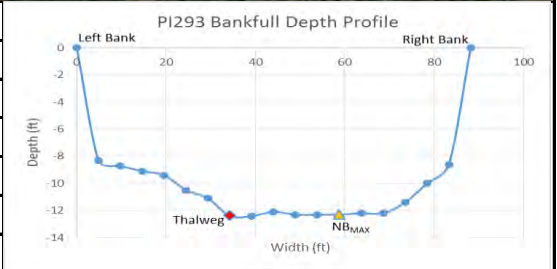
Near Bank Stress: High

RB Landuse: Pasture, Natural Forest



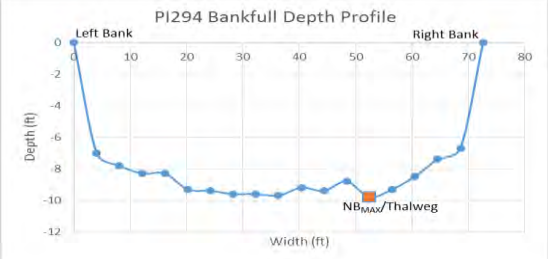
LB Landuse: Natural Forest, Pasture





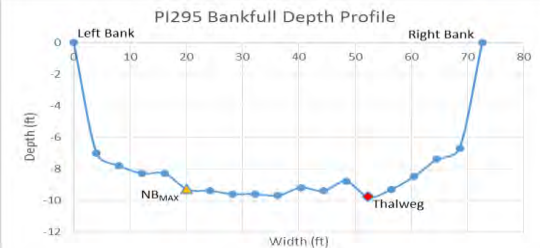
Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41535 Longitude: -81.8476			County: Hardee Site Number: PI293 Reach Length: 125 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.98)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Pasture

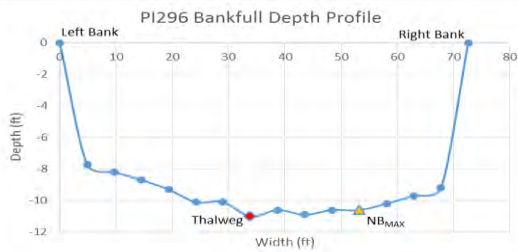
Peace River			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.4119 Longitude: -81.84659			County: Hardee Site Number: PI294 Reach Length: 240 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.35)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.25	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			Stream Channel Woody Material: Numerous
Restoration Option 1, restoration should be done in conjunction with site PI296			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture, Natural Forest



Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41229 Longitude: -81.84668			County: Hardee Site Number: PI295 Reach Length: 105 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.55)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture, Natural Forest
Restoration Option 2 or 3			



Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41189 Longitude: -81.84596			County: Hardee Site Number: PI296 Reach Length: 220 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.09)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1, restoration should be done in conjunction with site PI294			



#### Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None


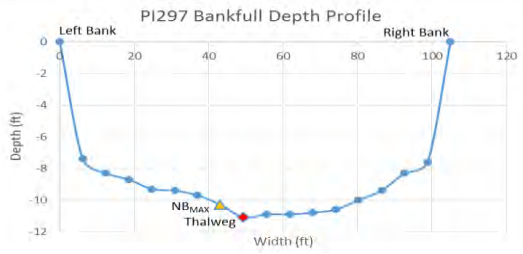
Substrate Composition: Medium Sand



Bank Material: Sand

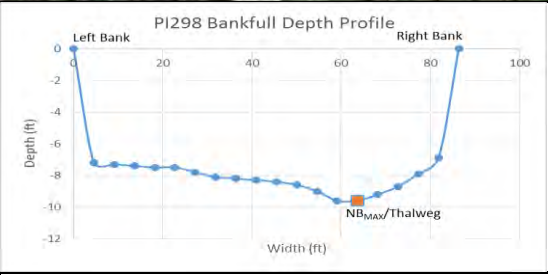
Near Bank Stress: Low

RB Landuse: Pasture, Natural Forest

LB Landuse: Pasture, Natural Forest



Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.41197 Longitude: -81.84557			County: Hardee Site Number: PI297 Reach Length: 50 ft. Landowner: Ben Hill Griffin Inc.
*No photos taken			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	<b>Additional Site Features</b>
BEHI:	Moderate (25.95)	0.5	
Local NPSP:	Obvious Sources	1.5	Stream Channel Woody Material: Infrequent
Shoring Structures:	None	0	Impoundments: None
Pipe Discharge:	None	0	Substrate Composition: Medium Sand
Water Odor:	Normal	0	Bank Material: Sand
Fish Passage Barrier:	None	0	Near Bank Stress: Moderate
RB: Riparian Buffer:	40 ft.	0.5	RB Landuse: Pasture, Natural Forest
LB: Riparian Buffer:	40 ft.	0.5	LB Landuse: Pasture, Natural Forest
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

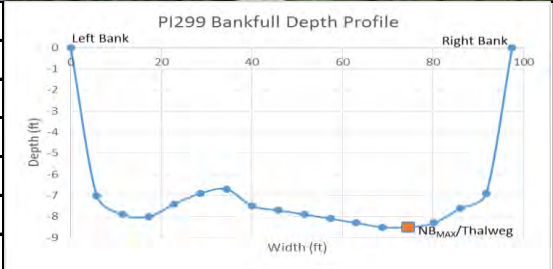
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40609 Longitude: -81.84827			County: Hardee Site Number: PI298 Reach Length: 100 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.00)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2			





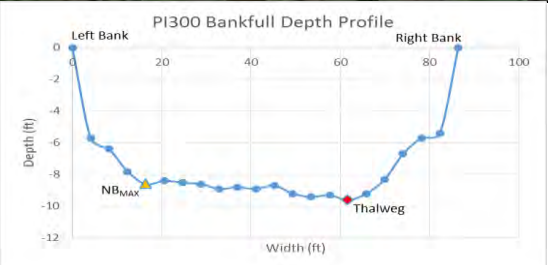
Additional Site Features	
Stream Channel Woody Material:	Moderate
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Pasture, Natural Forest



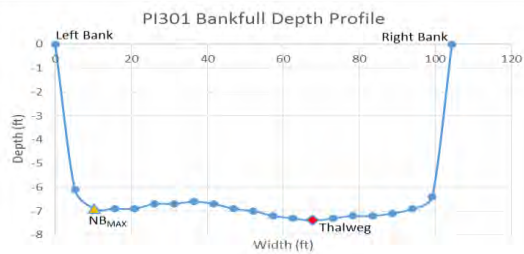


Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40453 Longitude: -81.84779			County: Hardee Site Number: PI299 Reach Length: 205 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Low (19.41)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 2 or 3			



Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand / Clay
Near Bank Stress: High
RB Landuse: Pasture
LB Landuse: Pasture, Natural Forest

Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.40042 Longitude: -81.84801			County: Hardee Site Number: PI300 Reach Length: 235 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (19.72)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
			
			Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand / Clay
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

Peace River			Severity Scale: 6.0-Moderate			
Watershed: Peace River Subwatershed: Peace River Branch Latitude: 27.39897 Longitude: -81.8477			County: Hardee Site Number: PI301 Reach Length: 345 ft. Landowner: Ben Hill Griffin INC			
						
Risk Factor	Ranking	Score	 <b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Low RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest			
Pfankuch-Channel Stability:	Poor	1.5				
Channel Alteration:	None	0				
Bank Erosion:	Active	1				
BEHI:	Moderate (24.93)	0.5				
Local NPSP:	Obvious Sources	1.5				
Shoring Structures:	None	0				
Pipe Discharge:	None	0				
Water Odor:	Normal	0				
Fish Passage Barrier:	None	0				
RB: Riparian Buffer:	0 ft.	0.75				
LB: Riparian Buffer:	0 ft.	0.75				
RB: Floodplain Access:	Full	0				
LB: Floodplain Access:	Full	0				
Severity Scale:		6.0				
Notes: Impaired - Aquatic Life Harvesting (mercury in fish tissue)						
Restoration Option 2 or 3						



# Horse Creek

Severity Scale: 5.5-Moderate

Watershed: Peace River

Subwatershed: Lower Horse Creek

Latitude: 27.19967

Longitude: -81.98788

County: Desoto

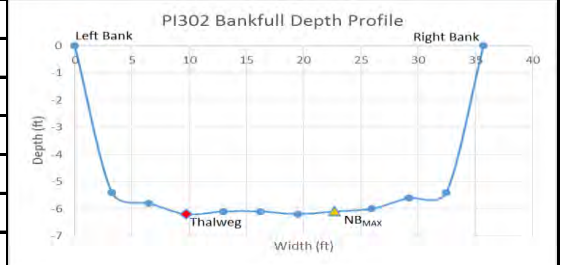
Site Number: PI302

Reach Length: 63 ft.

Landowner: CWP Properties LLC



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (36.94)	1
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>	<b>5.5</b>	



## Additional Site Features

Stream Channel Woody Material: None

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Medium Sand



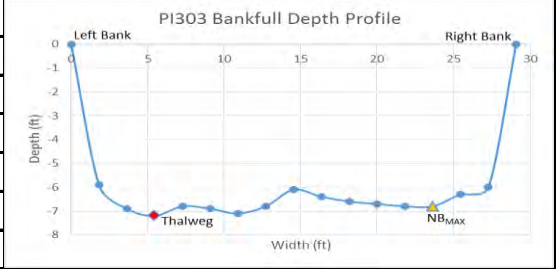
Near Bank Stress: Low

RB Landuse: Transportation



LB Landuse: Transportation

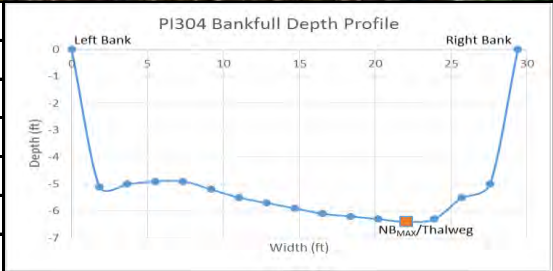
Notes: Hwy 72 bridge; 303d: Impaired - Public Water Supply (DO & BOD)

Restoration Option 2

Horse Creek			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.19765 Longitude: -81.98725			County: Desoto Site Number: PI303 Reach Length: 89 ft. Landowner: CWP Properties LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (31.12)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	10 ft.	0.75		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
Severity Scale:		4.0		
			Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Medium Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest, Recreation	
			LB Landuse: Natural Forest	
Notes: Trail at top of bank 10' wide - grass; 303d: Impaired - Public Water Supply (DO & BOD)				
Restoration Option 1				





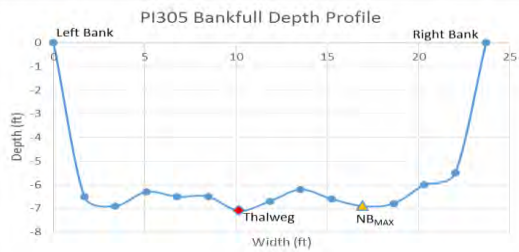
Horse Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.1955 Longitude: -81.98689			County: Desoto Site Number: PI304 Reach Length: 50 ft. Landowner: CWP Properties LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.08)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	
Notes: 4x4 trail next to top of bank; 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 2			





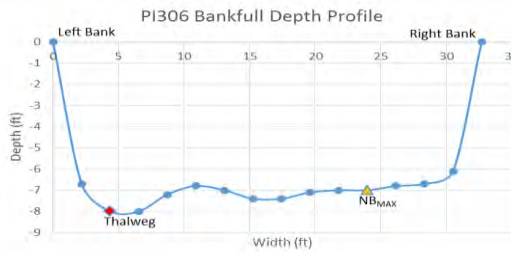
Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Medium Sand
Near Bank Stress:	High
RB Landuse:	Recreational, Natural Forest
LB Landuse:	Natural Forest



Horse Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.19475 Longitude: -81.98682			County: Desoto Site Number: PI305 Reach Length: 100 ft. Landowner: CWP Properties LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.49)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Dominating Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy Clay Near Bank Stress: Low RB Landuse: Recreational, Natural Forest LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



Horse Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.19433 Longitude: -81.98509			County: Desoto Site Number: PI306 Reach Length: 64 ft. Landowner: CWP Properties LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.26)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.25</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



#### Additional Site Features

Stream Channel Woody Material: Dominating

Impoundments: None

Substrate Composition: Medium Sand



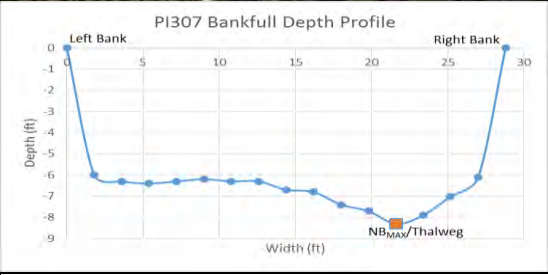
Bank Material: Medium Sand

Near Bank Stress: Low



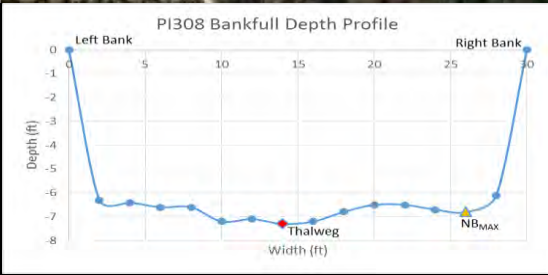
RB Landuse: Natural Forest, Recreational



LB Landuse: Natural Forest

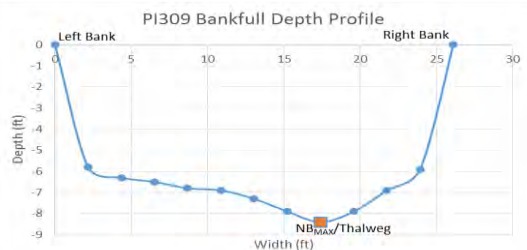


Horse Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.19412 Longitude: -81.9842			County: Desoto Site Number: PI307 Reach Length: 33 ft. Landowner: CWP Properties LLC
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.18)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
			Additional Site Features
RB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: moderate
LB: Riparian Buffer:	100 ft.	0	Impoundments: None
RB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand
LB: Floodplain Access:	Full	0	Bank Material: Medium Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.0</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



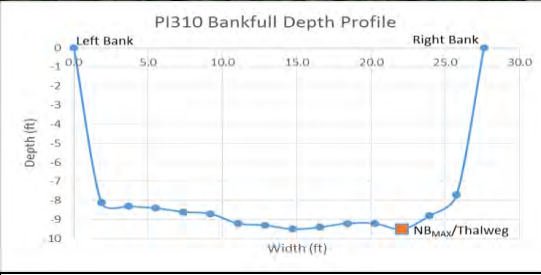


Horse Creek			Severity Scale: 2.75-Low	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.19376 Longitude: -81.98295			County: Desoto Site Number: PI308 Reach Length: 82 ft. Landowner: CWP Properties LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (26.22)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
			Additional Site Features	
RB: Riparian Buffer:	60 ft.	0.25	Stream Channel Woody Material: Extensive	
LB: Riparian Buffer:	100 ft.	0	Impoundments: None	
RB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
LB: Floodplain Access:	Full	0	Bank Material: Medium Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)				
Restoration Option 1				



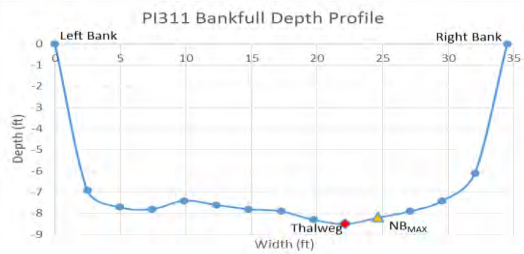
Horse Creek			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.18919 Longitude: -81.98335			County: Desoto Site Number: PI309 Reach Length: 75 ft. Landowner: Martha G Shunn
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (22.42)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.5</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			





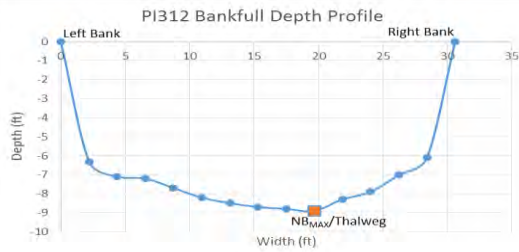


Horse Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.18629 Longitude: -81.98191			County: Desoto Site Number: PI310 Reach Length: 100 ft. Landowner: Scott L Profitt
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.50)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Medium Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



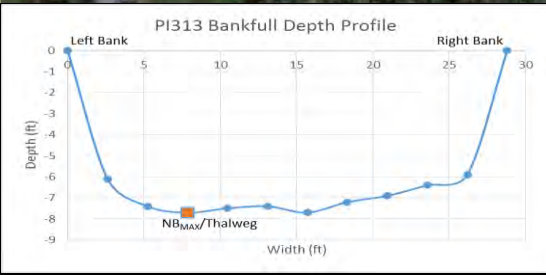


Horse Creek			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.179 Longitude: -81.9821			County: Desoto Site Number: PI311 Reach Length: 65 ft. Landowner: Marie Ellen Drymon	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (22.06)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.25	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Medium Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Recreational, Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)				
Restoration Option 2 or 3				



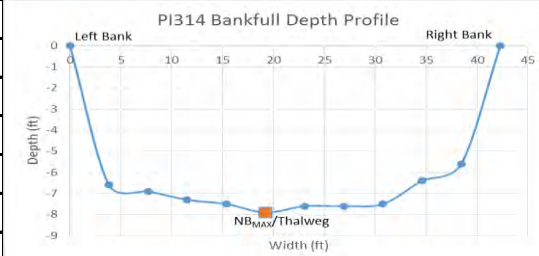
Horse Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.17804 Longitude: -81.9829			County: Desoto Site Number: PI312 Reach Length: 90 ft. Landowner: Harry M Drymon III
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.85)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Medium Sand Near Bank Stress: Moderate RB Landuse: Residential LB Landuse: Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			

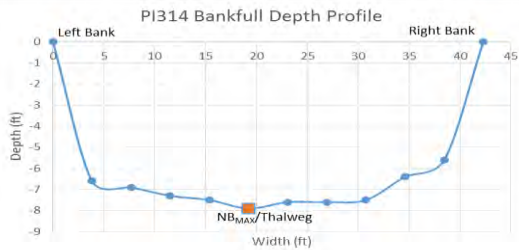




Horse Creek			Severity Scale: 3.25-Low																																														
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.17357 Longitude: -81.98167			County: Desoto Site Number: PI313 Reach Length: 85 ft. Landowner: Brent A Garrod																																														
																																																	
<table><thead><tr><th>Risk Factor</th><th>Ranking</th><th>Score</th></tr></thead><tbody><tr><td>Pfankuch-Channel Stability:</td><td>Fair</td><td>1</td></tr><tr><td>Channel Alteration:</td><td>None</td><td>0</td></tr><tr><td>Bank Erosion:</td><td>Active</td><td>1</td></tr><tr><td>BEHI:</td><td>High (34.61)</td><td>1</td></tr><tr><td>Local NPSP:</td><td>No Evidence</td><td>0</td></tr><tr><td>Shoring Structures:</td><td>None</td><td>0</td></tr><tr><td>Pipe Discharge:</td><td>None</td><td>0</td></tr><tr><td>Water Odor:</td><td>Normal</td><td>0</td></tr><tr><td>Fish Passage Barrier:</td><td>None</td><td>0</td></tr><tr><td>RB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>LB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>RB: Floodplain Access:</td><td>Full</td><td>0</td></tr><tr><td>LB: Floodplain Access:</td><td>Partial</td><td>0.25</td></tr><tr><td colspan="2">Severity Scale:</td><td>3.25</td></tr></tbody></table>			Risk Factor	Ranking	Score	Pfankuch-Channel Stability:	Fair	1	Channel Alteration:	None	0	Bank Erosion:	Active	1	BEHI:	High (34.61)	1	Local NPSP:	No Evidence	0	Shoring Structures:	None	0	Pipe Discharge:	None	0	Water Odor:	Normal	0	Fish Passage Barrier:	None	0	RB: Riparian Buffer:	100 ft.	0	LB: Riparian Buffer:	100 ft.	0	RB: Floodplain Access:	Full	0	LB: Floodplain Access:	Partial	0.25	Severity Scale:		3.25		
Risk Factor	Ranking	Score																																															
Pfankuch-Channel Stability:	Fair	1																																															
Channel Alteration:	None	0																																															
Bank Erosion:	Active	1																																															
BEHI:	High (34.61)	1																																															
Local NPSP:	No Evidence	0																																															
Shoring Structures:	None	0																																															
Pipe Discharge:	None	0																																															
Water Odor:	Normal	0																																															
Fish Passage Barrier:	None	0																																															
RB: Riparian Buffer:	100 ft.	0																																															
LB: Riparian Buffer:	100 ft.	0																																															
RB: Floodplain Access:	Full	0																																															
LB: Floodplain Access:	Partial	0.25																																															
Severity Scale:		3.25																																															
			<b>Additional Site Features</b>																																														
			Stream Channel Woody Material: Dominating																																														
			Impoundments: None																																														
			Substrate Composition: Medium Sand																																														
			Bank Material: Medium Sand																																														
			Near Bank Stress: High																																														
			RB Landuse: Natural Forest																																														
			LB Landuse: Natural Forest																																														
Notes: 303d: Impaired - Public Water Supply (DO & BOD)																																																	
Restoration Option 1																																																	



Horse Creek			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.17176 Longitude: -81.98217			County: Desoto Site Number: PI314 Reach Length: 89 ft. Landowner: Marie Ellen Drymon	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (36.82)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	Present	1.5		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Partial	0.25	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
<b>Severity Scale:</b>			Bank Material: Medium Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Residential	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)				
Restoration Option 1				



# Horse Creek

Severity Scale: 5.5-Moderate

Watershed: Peace River

Subwatershed: Lower Horse Creek

Latitude: 27.19967

Longitude: -81.98788

County: Desoto

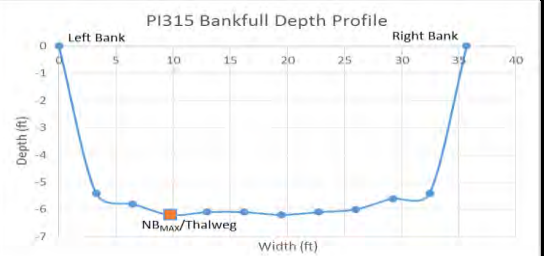
Site Number: PI315

Reach Length: 51 ft.

Landowner: Robert Griffiths V



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (39.02)	1
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Partial	0.25
Severity Scale:		5.5



## Additional Site Features

Stream Channel Woody Material: None

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Medium Sand

Near Bank Stress: High

RB Landuse: Transportation

LB Landuse: Transportation

Notes: Hwy 72 bridge; 303d: Impaired - Public Water Supply (DO & BOD)

Restoration Option 2 or 3



## Shell Creek

Severity Scale: 1.75-Low

Watershed: Peace River

Subwatershed: Middle Shell Creek

Latitude: 26.96845

Longitude: -81.8754

County: Charlotte

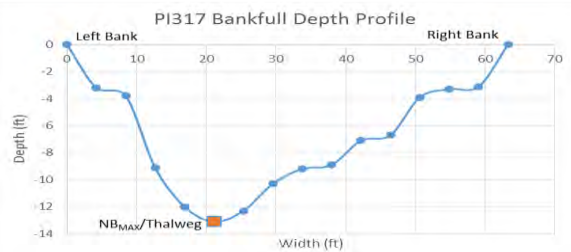
Site Number: PI317

Reach Length: 24 ft.

Landowner: Miles Walker Hall



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (29.54)	0.5
Local NPSP:	No Evidence	0
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>1.75</b>



### Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: High



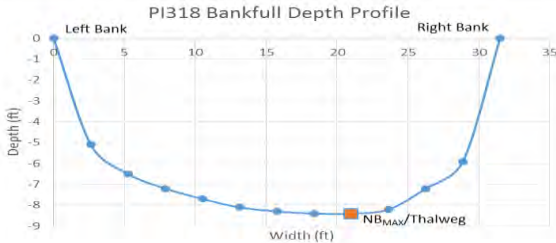
RB Landuse: Natural Forest



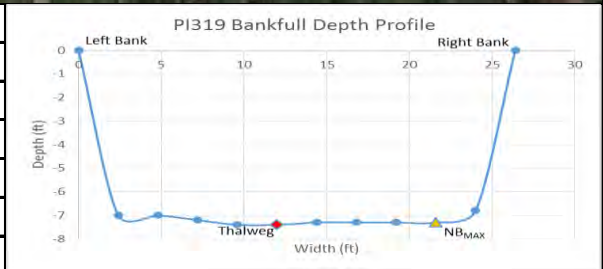
LB Landuse: Natural Forest

Notes: 303d: Impaired – Chloride, DO, Specific Conductivity and TDS



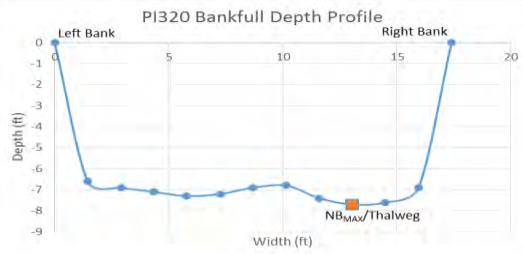
Restoration Option 2 or 3





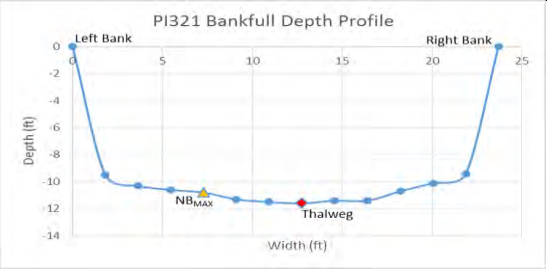
Shell Creek			Severity Scale: 2.25-Low																																														
Watershed: Peace River Subwatershed: Middle Shell Creek Latitude: 26.96905 Longitude: -81.84633			County: Charlotte Site Number: PI318 Reach Length: 55 ft. Landowner: Charlotte County																																														
																																																	
<table><thead><tr><th>Risk Factor</th><th>Ranking</th><th>Score</th></tr></thead><tbody><tr><td>Pfankuch-Channel Stability:</td><td>Good</td><td>0</td></tr><tr><td>Channel Alteration:</td><td>None</td><td>0</td></tr><tr><td>Bank Erosion:</td><td>Active</td><td>1</td></tr><tr><td>BEHI:</td><td>High (33.65)</td><td>1</td></tr><tr><td>Local NPSP:</td><td>No Evidence</td><td>0</td></tr><tr><td>Shoring Structures:</td><td>None</td><td>0</td></tr><tr><td>Pipe Discharge:</td><td>None</td><td>0</td></tr><tr><td>Water Odor:</td><td>Normal</td><td>0</td></tr><tr><td>Fish Passage Barrier:</td><td>None</td><td>0</td></tr><tr><td>RB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>LB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>RB: Floodplain Access:</td><td>Partial</td><td>0.25</td></tr><tr><td>LB: Floodplain Access:</td><td>Full</td><td>0</td></tr><tr><td colspan="2">Severity Scale:</td><td>2.25</td></tr></tbody></table>			Risk Factor	Ranking	Score	Pfankuch-Channel Stability:	Good	0	Channel Alteration:	None	0	Bank Erosion:	Active	1	BEHI:	High (33.65)	1	Local NPSP:	No Evidence	0	Shoring Structures:	None	0	Pipe Discharge:	None	0	Water Odor:	Normal	0	Fish Passage Barrier:	None	0	RB: Riparian Buffer:	100 ft.	0	LB: Riparian Buffer:	100 ft.	0	RB: Floodplain Access:	Partial	0.25	LB: Floodplain Access:	Full	0	Severity Scale:		2.25		
Risk Factor	Ranking	Score																																															
Pfankuch-Channel Stability:	Good	0																																															
Channel Alteration:	None	0																																															
Bank Erosion:	Active	1																																															
BEHI:	High (33.65)	1																																															
Local NPSP:	No Evidence	0																																															
Shoring Structures:	None	0																																															
Pipe Discharge:	None	0																																															
Water Odor:	Normal	0																																															
Fish Passage Barrier:	None	0																																															
RB: Riparian Buffer:	100 ft.	0																																															
LB: Riparian Buffer:	100 ft.	0																																															
RB: Floodplain Access:	Partial	0.25																																															
LB: Floodplain Access:	Full	0																																															
Severity Scale:		2.25																																															
			<b>Additional Site Features</b>																																														
			Stream Channel Woody Material: Mdoerate																																														
			Impoundments: None																																														
			Substrate Composition: Medium Sand																																														
			Bank Material: Sand																																														
			Near Bank Stress: High																																														
			RB Landuse: Natural Forest																																														
			LB Landuse: Natural Forest																																														
Notes: 303d: Impaired – Chloride, DO, Specific Conductivity and TDS																																																	
Restoration Option 2 or 3																																																	

Shell Creek			Severity Scale: 2.25-Low																																															
Watershed: Peace River Subwatershed: Upper Shell Creek Latitude: 26.96946 Longitude: -81.84399			County: Charlotte Site Number: PI319 Reach Length: 50 ft. Landowner: Charlotte County																																															
																																																		
<table><thead><tr><th>Risk Factor</th><th>Ranking</th><th>Score</th></tr></thead><tbody><tr><td>Pfankuch-Channel Stability:</td><td>Good</td><td>0</td></tr><tr><td>Channel Alteration:</td><td>None</td><td>0</td></tr><tr><td>Bank Erosion:</td><td>Active</td><td>1</td></tr><tr><td>BEHI:</td><td>High (34.79)</td><td>1</td></tr><tr><td>Local NPSP:</td><td>No Evidence</td><td>0</td></tr><tr><td>Shoring Structures:</td><td>None</td><td>0</td></tr><tr><td>Pipe Discharge:</td><td>None</td><td>0</td></tr><tr><td>Water Odor:</td><td>Normal</td><td>0</td></tr><tr><td>Fish Passage Barrier:</td><td>None</td><td>0</td></tr><tr><td>RB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>LB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>RB: Floodplain Access:</td><td>Partial</td><td>0.25</td></tr><tr><td>LB: Floodplain Access:</td><td>Full</td><td>0</td></tr><tr><td colspan="2">Severity Scale:</td><td>2.25</td></tr></tbody></table>			Risk Factor	Ranking	Score	Pfankuch-Channel Stability:	Good	0	Channel Alteration:	None	0	Bank Erosion:	Active	1	BEHI:	High (34.79)	1	Local NPSP:	No Evidence	0	Shoring Structures:	None	0	Pipe Discharge:	None	0	Water Odor:	Normal	0	Fish Passage Barrier:	None	0	RB: Riparian Buffer:	100 ft.	0	LB: Riparian Buffer:	100 ft.	0	RB: Floodplain Access:	Partial	0.25	LB: Floodplain Access:	Full	0	Severity Scale:		2.25			
Risk Factor	Ranking	Score																																																
Pfankuch-Channel Stability:	Good	0																																																
Channel Alteration:	None	0																																																
Bank Erosion:	Active	1																																																
BEHI:	High (34.79)	1																																																
Local NPSP:	No Evidence	0																																																
Shoring Structures:	None	0																																																
Pipe Discharge:	None	0																																																
Water Odor:	Normal	0																																																
Fish Passage Barrier:	None	0																																																
RB: Riparian Buffer:	100 ft.	0																																																
LB: Riparian Buffer:	100 ft.	0																																																
RB: Floodplain Access:	Partial	0.25																																																
LB: Floodplain Access:	Full	0																																																
Severity Scale:		2.25																																																
			<b>Additional Site Features</b>																																															
			Stream Channel Woody Material: Moderate																																															
			Impoundments: None																																															
			Substrate Composition: Medium Sand																																															
			Bank Material: Sand																																															
			Near Bank Stress: Low																																															
			RB Landuse: Natural Forest																																															
			LB Landuse: Natural Forest																																															
Notes: 303d: Impaired – Chloride, DO, Specific Conductivity and TDS																																																		
Restoration Option 2 or 3																																																		



Horse Creek			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.17159 Longitude: -81.98177			County: Desoto Site Number: PI320 Reach Length: 121 ft. Landowner: Hector R Moran
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.62)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



Horse Creek			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.17174 Longitude: -81.98080			County: Desoto Site Number: PI321 Reach Length: 250 ft. Landowner: Brent A Garrod	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (34.97)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		4.0	Additional Site Features	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)  Restoration Option 1			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	

# Horse Creek

Severity Scale: 6.75-Moderate

Watershed: Peace River

Subwatershed: Lower Horse Creek

Latitude: 27.17002

Longitude: -81.98142

County: Desoto

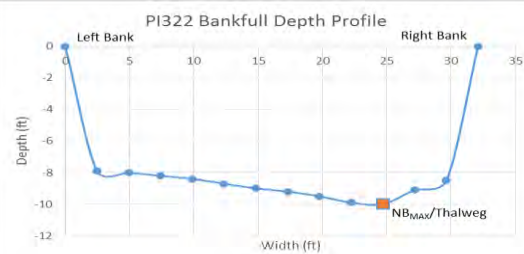
Site Number: PI322

Reach Length: 580 ft.

Landowner: Ely William Brewster Jr



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (21.77)	0.5
Local NPSP:	Slight Potential	0.5
Shoring Structures:	Present	1.5
Pipe Discharge:	Present	1.5
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.75



## Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: High



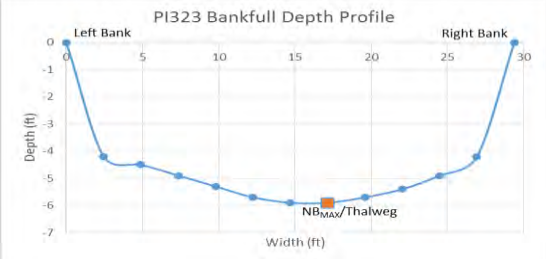
RB Landuse: Residential

LB Landuse: Natural Forest



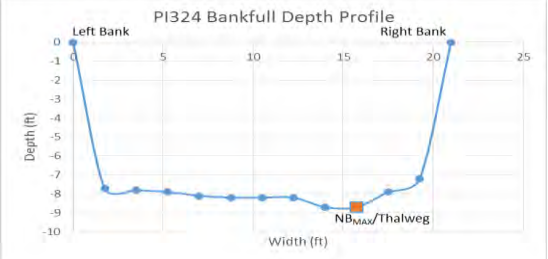
Notes: 303d: Impaired - Public Water Supply (DO & BOD)



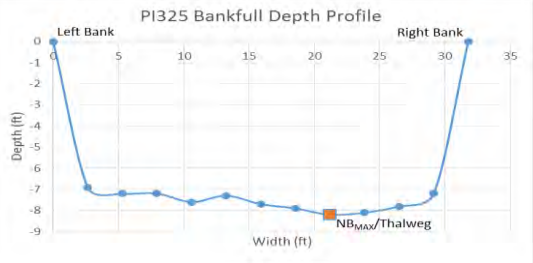
Restoration Option 1





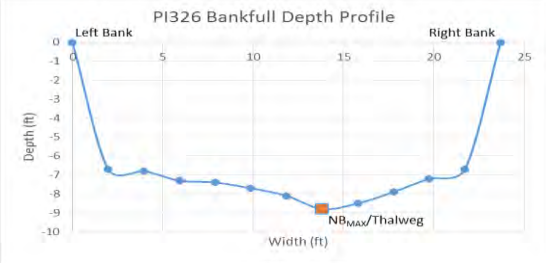
Horse Creek			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.16805 Longitude: -81.98046			County: Desoto Site Number: PI323 Reach Length: 200 ft. Landowner: Martin D and Susan E Raskie
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.59)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	Additional Site Features
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		5.0	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			Stream Channel Woody Material: Moderate
Restoration Option 1			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest



Horse Creek			Severity Scale: 2.75-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.16690 Longitude: -81.97968			County: Desoto Site Number: PI324 Reach Length: 150 ft. Landowner: Stephen John Krogel
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.91)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
			Additional Site Features
RB: Riparian Buffer:	100	0	Stream Channel Woody Material: Numerous
LB: Riparian Buffer:	100	0	Impoundments: None
RB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand
LB: Floodplain Access:	Full	0	Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>2.75</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			

Horse Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.16521 Longitude: -81.97775			County: Desoto Site Number: PI325 Reach Length: 158 ft. Landowner: Spanish Trail Land and Cattle
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (29.09)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.75</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



Horse Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.16491 Longitude: -81.97659			County: Desoto Site Number: PI326 Reach Length: 160 ft. Landowner: Douglas M & Sandra D Page
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.07)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>3.25</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



# Horse Creek

Severity Scale: 4.5-Moderate

Watershed: Peace River

Subwatershed: Lower Horse Creek

Latitude: 27.16105

Longitude: -81.97516

County: Desoto

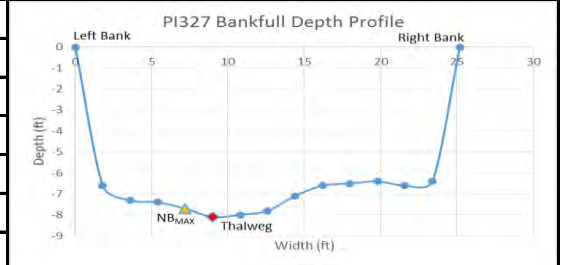
Site Number: PI327

Reach Length: 215 ft.

Landowner: TIITF/State of Florida



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (34.40)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		4.5



## Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand



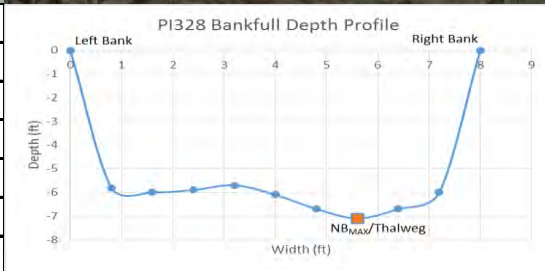
Near Bank Stress: Moderate

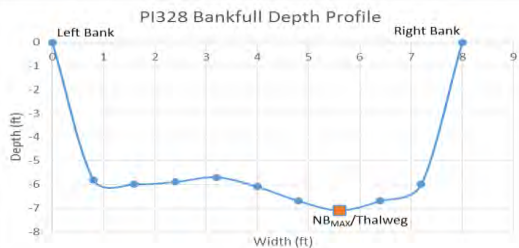
RB Landuse: Natural Forest

LB Landuse: Natural Forest



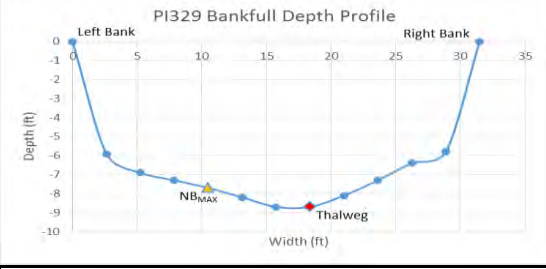
Notes: 303d: Impaired - Public Water Supply (DO & BOD)

Restoration Option 1



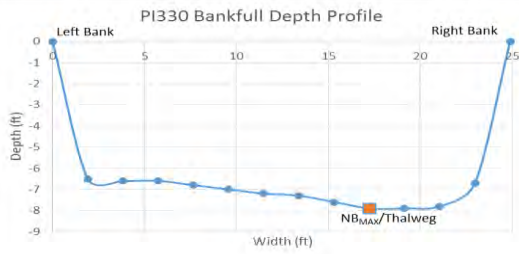
Horse Creek			Severity Scale: 5.0-Moderate	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.15953 Longitude: -81.97331			County: Desoto Site Number: PI328 Reach Length: 175 ft. Landowner: TIITF/State of Florida	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (39.93)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand	
Severity Scale:		5.0	Bank Material: Sand	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest	
Restoration Option 1				



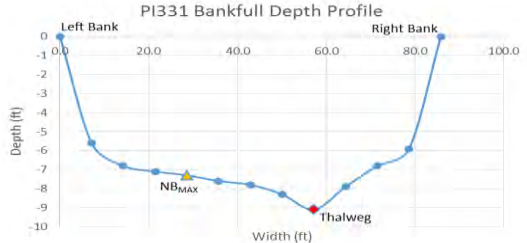






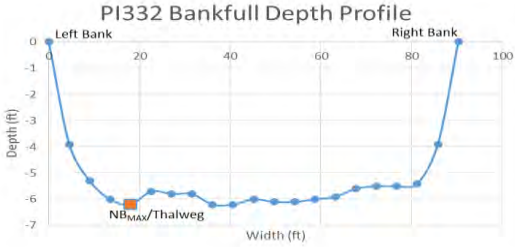
Horse Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.16038 Longitude: -81.96816			County: Desoto Site Number: PI329 Reach Length: 190 ft. Landowner: TIITF/State of Florida
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.93)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>3.25</b>	
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Restoration Option 1			





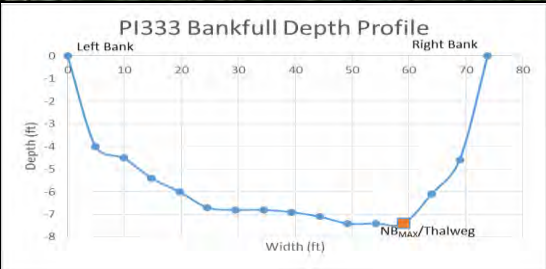
Horse Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.15924 Longitude: -81.96779			County: Desoto Site Number: PI330 Reach Length: 315 ft. Landowner: TIITF/State of Florida
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (35.74)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Public Water Supply (DO & BOD)			
Restoration Option 1			



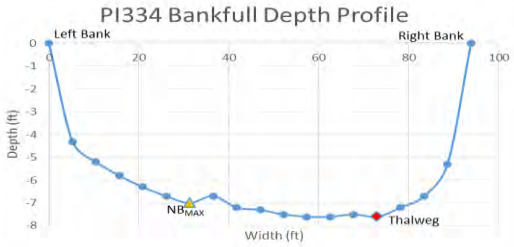
Peace River			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.50454 Longitude: -81.80436			County: Hardee Site Number: PI331 Reach Length: 265 Landowner: Hardee County BCC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (23.16)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural forest
			LB Landuse: Natural forest, Recreation
Restoration Option 1			





Peace River			Severity Scale: 1.25-Low
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.50903 Longitude: -81.79713			County: Hardee Site Number: PI332 Reach Length: 264 ft. Landowner: EIP Florida LLC
			
Risk Factor	Ranking	Score	<div> PI332 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (13.76)	0	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>1.25</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy Clay
			Near Bank Stress: High
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

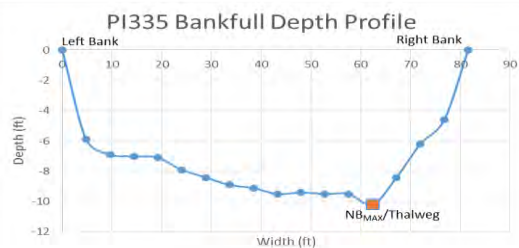


Peace River			Severity Scale: 1.75-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.51109 Longitude: -81.79532			County: Hardee Site Number: PI333 Reach Length: 138 ft. Landowner: EIP Florida LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (29.33)	0.5		
Local NPSP:	No evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
			Additional Site Features	
RB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Numerous	
LB: Riparian Buffer:	100 ft.	0	Impoundments: None	
RB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand	
LB: Floodplain Access:	Full	0	Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 1				

Peace River			Severity Scale: 2.25-Low	
Watershed: Peace River Subwatershed: Troublesome Creek Latitude: 27.51372 Longitude: -81.79198			County: Hardee Site Number: PI334 Reach Length: 114 ft. Landowner: EIP Florida LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (30.74)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		2.25	Additional Site Features	
			Stream Channel Woody Material: Extensive	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A				
Restoration Option 2 or 3				



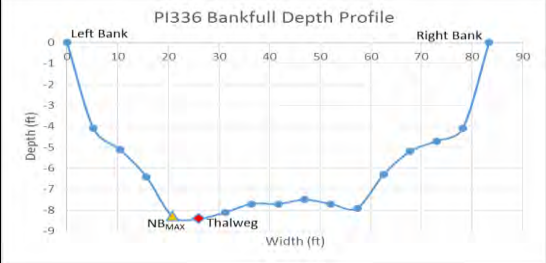




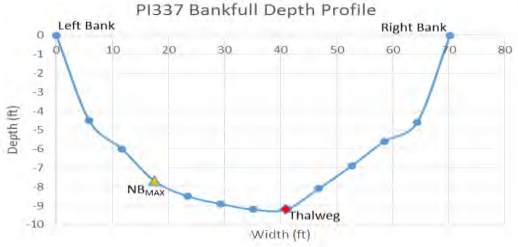
Peace River			Severity Scale: 1.5-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.51630 Longitude: -81.79236			County: Hardee Site Number: PI335 Reach Length: 185 ft. Landowner: EIP Florida LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.97)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		1.5	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest
LB Landuse: Natural Forest

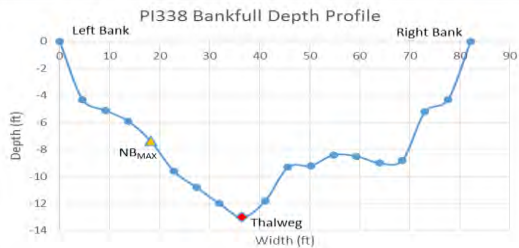


Peace River			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.54300 Longitude: -81.79153			County: Hardee Site Number: PI336 Reach Length: 101 ft. Landowner: Eason, J W Jr. and Betty Ann
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.16)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			
Restoration Option 1			

Peace River			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.57229 Longitude: -81.80223			County: Hardee Site Number: PI337 Reach Length: 85 ft. Landowner: Cynthia C. Parrish
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (33.93)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: Short floodplain or bankfull bench; Cattle fenced out; Inside meander; 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue), Chlorophyll-A			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 2 or 3			



Peace River			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.61982 Longitude: -81.80216			County: Hardee Site Number: PI338 Reach Length: 169 ft. Landowner: TIITF/State of Florida
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.18)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>2.5</b>	
Notes: 303d - Impaired: Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



#### Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium Sand



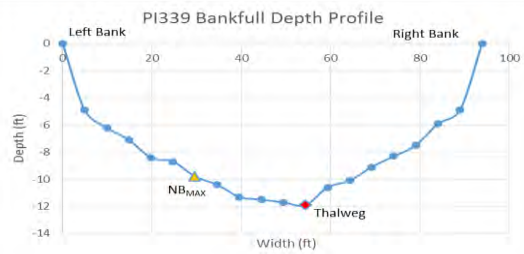
Bank Material: Sand



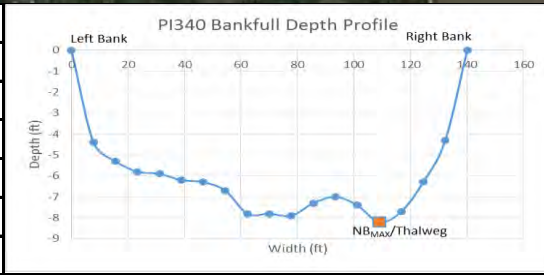
Near Bank Stress: Moderate

RB Landuse: Recreation, Natural Forest



LB Landuse: Natural Forest

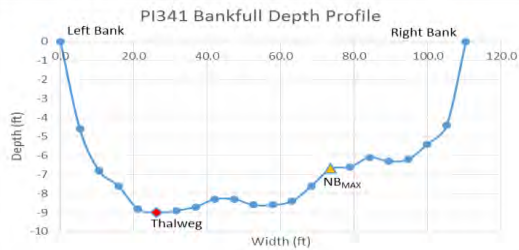


Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.29383 Longitude: -81.85000			County: Desoto Site Number: PI339 Reach Length: 290 ft. Landowner: PARAISO LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (15.29)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	10 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.75		
Notes: Little rock debris - trash; cattle or horse pasture; fenced out; 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				



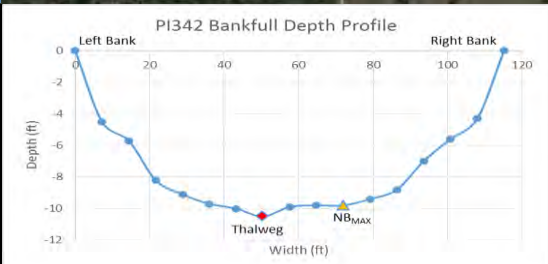
Peace River			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.29331 Longitude: -81.85373			County: Desoto Site Number: PI340 Reach Length: 282 ft. Landowner: Riverpeace Inc	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (10.55)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b>	
LB: Riparian Buffer:	60 ft.	0.25	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale:		3.25	Bank Material: Sandy Clay	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			Near Bank Stress: High	
Restoration Option 1			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest, Residential	



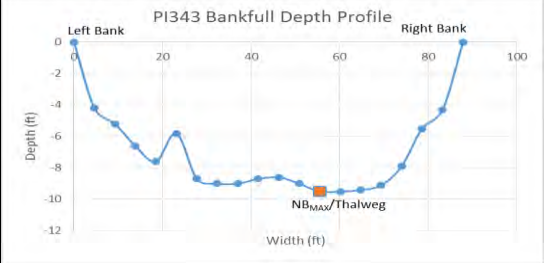


Peace River			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.27829 Longitude: -81.85983			County: Desoto Site Number: PI341 Reach Length: 108 ft. Landowner: Anthony and Dorothy Werner
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.29)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Low RB Landuse: Residential LB Landuse: Natural Forest, Recreation
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



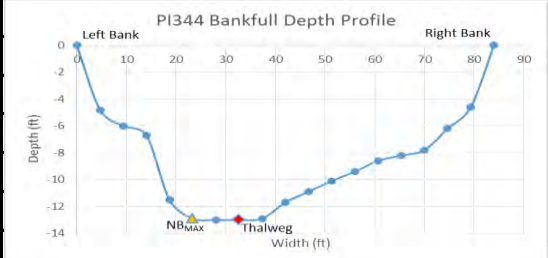






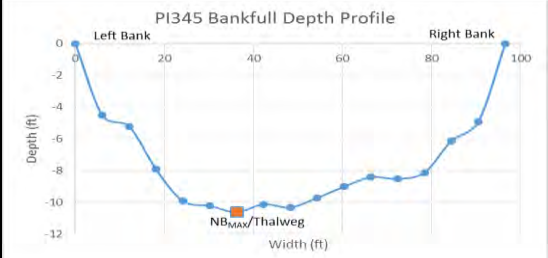
Peace River			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.26422 Longitude: -81.86738			County: Desoto Site Number: PI342 Reach Length: 80 ft. Landowner: Charlotte A Bragg	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High (40.59)	1.5		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	20 ft.	0.75		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
Severity Scale:		4.0		
			Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Low	
			RB Landuse: Recreation, Natural Forest	
			LB Landuse: Natural Forest	
Notes: Campsite; 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				



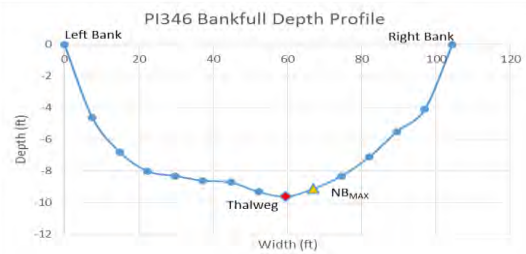
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.25359 Longitude: -81.87567			County: Desoto Site Number: PI343 Reach Length: Landowner: Constructora Limonar LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.23)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	
			
			Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2 or 3			





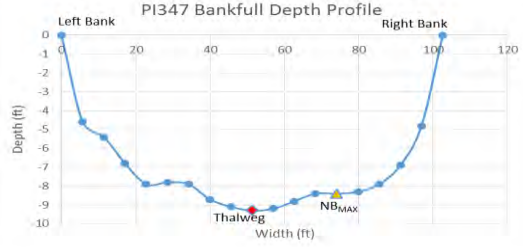
Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.24648 Longitude: -81.88428			County: Desoto Site Number: PI344 Reach Length: 612 ft. Landowner: Daniel E Lambert	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (16.38)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.75	Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Pasture	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				





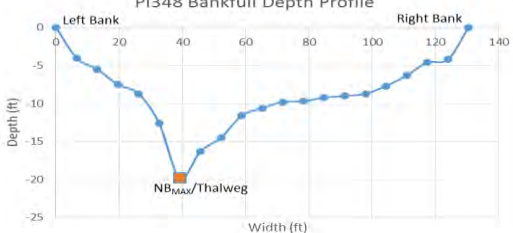
Peace River			Severity Scale: 2.75	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.24312 Longitude: -81.88570			County: Desoto Site Number: PI345 Reach Length: 656 ft. Landowner: COLLINS CARY B TR &	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (15.28)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		2.75	Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sandy Clay	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Pasture	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				



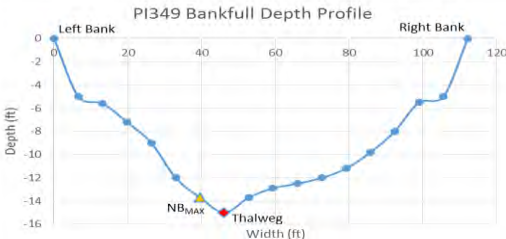
Peace River			Severity Scale: 2.25-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.23797 Longitude: -81.88751			County: Desoto Site Number: PI346 Reach Length: 322 ft. Landowner: Parker, John W. Sr. & Sue	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (27.85)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
Severity Scale:		2.25		
			Additional Site Features	
			Stream Channel Woody Material: Numerous	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest, Transportation	
			LB Landuse: Natural Forest	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue); Train track runs approx. 75 ft. from top of bank - cleared riparian vegetation				
Restoration Option 2 or 3				





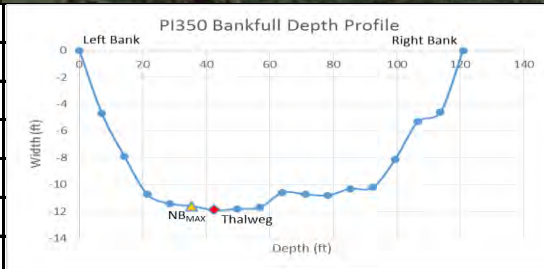
Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Johnson Lake - Peace River Latitude: 27.23198 Longitude: -81.88816			County: Desoto Site Number: PI347 Reach Length: 644 ft. Landowner: Four Marnan Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (39.31)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.0	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			Additional Site Features
Restoration Option 1			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Residential, Natural Forest
			LB Landuse: Natural Forest





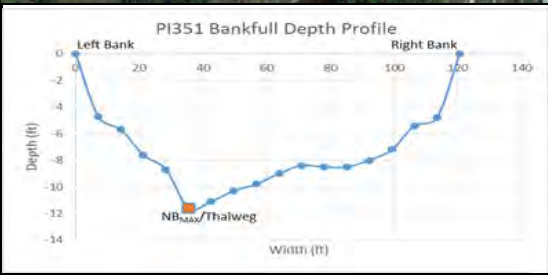
Peace River			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Johnson Lake - Peace River Latitude: 27.23411 Longitude: -81.88760			County: Desoto Site Number: PI348 Reach Length: 385 ft. Landowner: Neal Roy Jr. Estate
			
Risk Factor	Ranking	Score	<div> PI348 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.27)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>2.5</b>	
			Additional Site Features
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Recreation
			LB Landuse: Natural Forest
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



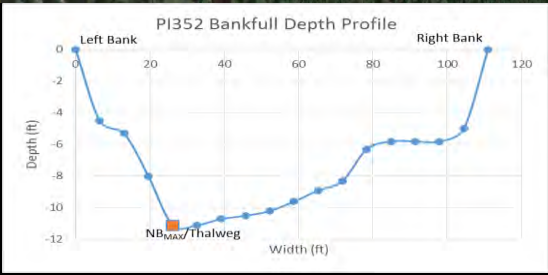
Peace River			Severity Scale: 3.25	
Watershed: Peace River Subwatershed: Johnson Lake - Peace River Latitude: 27.23021 Longitude: -81.88251			County: Desoto Site Number: PI349 Reach Length: 1,650 ft. Landowner: DeSoto County	
				
Risk Factor	Ranking	Score	PI349 Bankfull Depth Profile	
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (35.27)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.25	Additional Site Features	
			Stream Channel Woody Material: Numerous	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Recreation, Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue);				
Long reach - some sections with good willows and cypress				
Restoration Option 1				





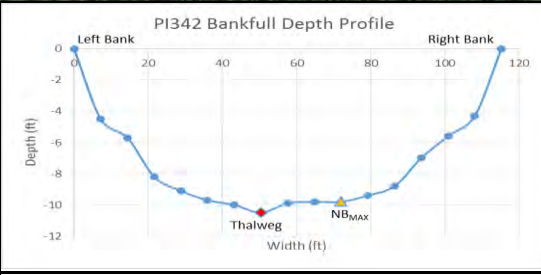
Peace River			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: Johnson Lake - Peace River Latitude: 27.22926 Longitude: -81.88292			County: Desoto Site Number: PI350 Reach Length: Landowner: George & Jonica Lempeneau	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (31.93)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.25		
			Additional Site Features	
			Stream Channel Woody Material: None	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				





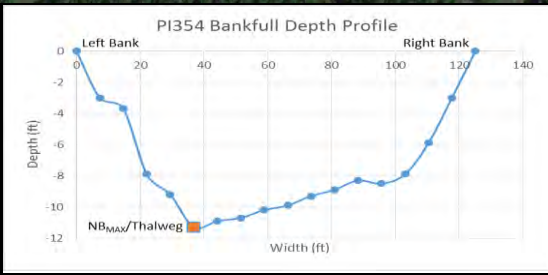
Peace River			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Johnson Lake - Peace River Latitude: 27.22382 Longitude: -81.87945			County: Desoto Site Number: PI351 Reach Length: 355 ft. Landowner: Desoto County	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (28.91)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
			Additional Site Features	
RB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Numerous	
LB: Riparian Buffer:	60 ft.	0.25	Impoundments: None	
RB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
LB: Floodplain Access:	Partial	0.25	Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Commercial	
			LB Landuse: Natural Forest, Recreation	
<b>Severity Scale:</b>			<b>4.0</b>	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				



Peace River			Severity Scale: 5.0-Moderate	
Watershed: Peace River Subwatershed: Johnson Lake - Peace River Latitude: 27.21610 Longitude: -81.88634			County: Desoto Site Number: PI352 Reach Length: 510 ft. Landowner: Garner Grove and Cattle Co	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (25.08)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	70 ft.	0.25		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.0	Additional Site Features	
			Stream Channel Woody Material: Numerous	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Pasture, Natural Forest	
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				

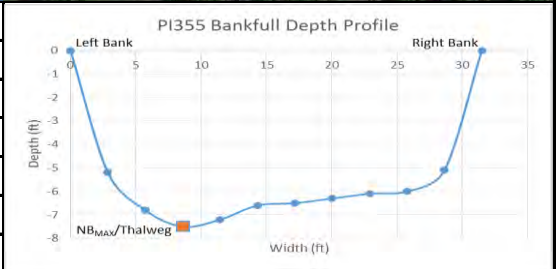


Peace River			Severity Scale: 2.25-Low
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.21837 Longitude: -81.87807			County: Desoto Site Number: PI353 Reach Length: 128 ft. Landowner: Garner Grove & Cattle Co Inc
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.84)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>2.25</b>	
			
			Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: 303d - Impaired: Aquatic Life Harvesting (fecal coliform, mercury in fish tissue); just downstream of PI342 - used same data.			
Restoration Option 2 or 3			





Peace River			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Johnson Lake - Peace River Latitude: 27.21837 Longitude: -81.87807			County: Desoto Site Number: PI354 Reach Length: 128 ft. Landowner: Susie Robertson	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (31.84)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Natural Forest	
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
<b>Severity Scale:</b>		<b>3.75</b>		
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				

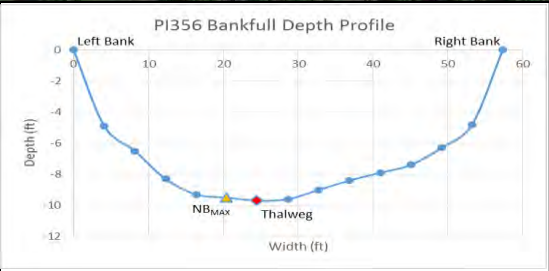
Horse Creek			Severity Scale: 7.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.22602 Longitude: -81.99317			County: Desoto Site Number: PI355 Reach Length: 180 ft. Landowner: VHC Management Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (38.65)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>7.25</b>	
Notes: Cattle fence present but not preventing cattle from accessing stream; 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			





Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture
LB Landuse:	Pasture

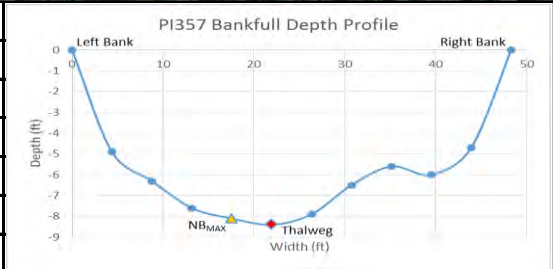


Horse Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.22587 Longitude: -81.99220			County: Desoto Site Number: PI356 Reach Length: 136 ft. Landowner: VHC Management Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.16)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: Farm road near bank; 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			



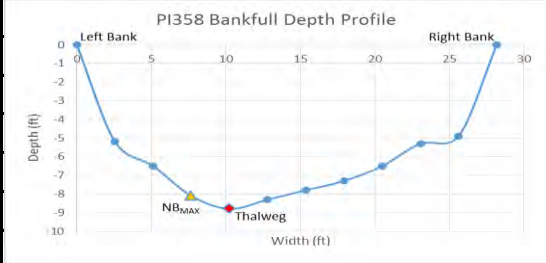






Horse Creek			Severity Scale: 6.5-Moderate
Watershed: PI357 Subwatershed: Lower Horse Creek Latitude: 27.22359 Longitude: -81.99275			County: Desoto Site Number: PI357 Reach Length: 193 ft. Landowner: VHC Management Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.08)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
Notes: Fence present but cattle able to access creek; 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			

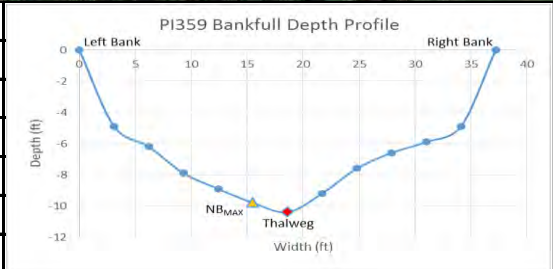


Additional Site Features
Stream Channel Woody Material: Extensive
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy Clay
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture

Horse Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.22258 Longitude: -81.99321			County: Desoto Site Number: PI358 Reach Length: 215 ft. Landowner: VHC Management Co.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.42)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		5.5	
Notes: Cattle fence near bank; 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			





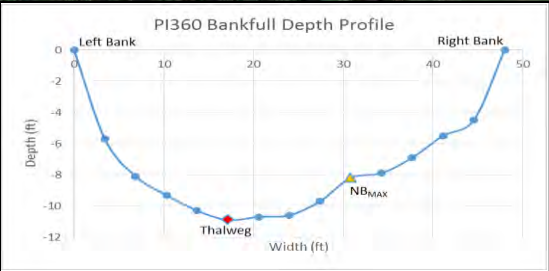
Horse Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.22135 Longitude: -81.99448			County: Desoto Site Number: PI359 Reach Length: 55 ft. Landowner: VHC Management Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.45)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest



Horse Creek			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.22148 Longitude: -81.99496			County: Desoto Site Number: PI360 Reach Length: 131 ft. Landowner: VHC Management Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (39.97)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.75</b>	
Notes: 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Pasture
LB Landuse: Natural Forest

# Horse Creek

Severity Scale: 5.75-Moderate

Watershed: Peace River

Subwatershed: Lower Horse Creek

Latitude: 27.21999

Longitude: -81.99406

County: Desoto

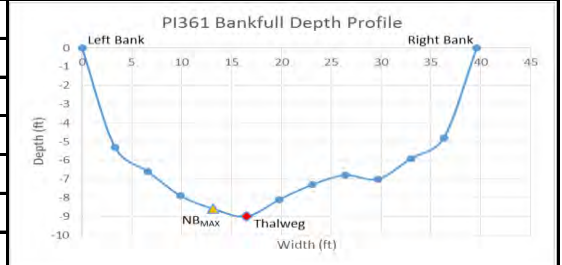
Site Number: PI361

Reach Length: 245 ft.

Landowner: VHC Management Co.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (33.52)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		5.75



## Additional Site Features

Stream Channel Woody Material: Extensive

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate



RB Landuse: Natural Forest

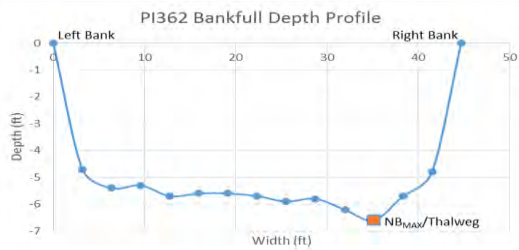
LB Landuse: Natural Forest

Notes: 303d: Impaired - Public Water Supply (BOD & DO)



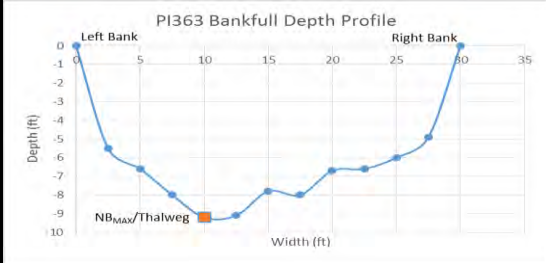
Restoration Option 1



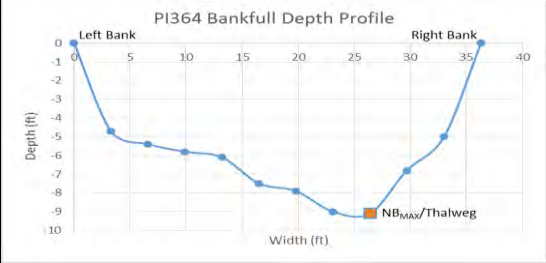


Horse Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21886 Longitude: -81.99551			County: Desoto Site Number: PI362 Reach Length: 200 ft. Landowner: VHC Management Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (37.40)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	<b>Additional Site Features</b>
Fish Passage Barrier:	None	0	Stream Channel Woody Material: Moderate
RB: Riparian Buffer:	40 ft.	0.5	Impoundments: None
LB: Riparian Buffer:	80 ft.	0.25	Substrate Composition: Medium Sand
RB: Floodplain Access:	Full	0	Bank Material: Sand
LB: Floodplain Access:	Full	0	Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			



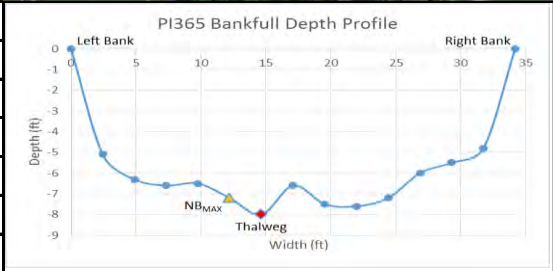






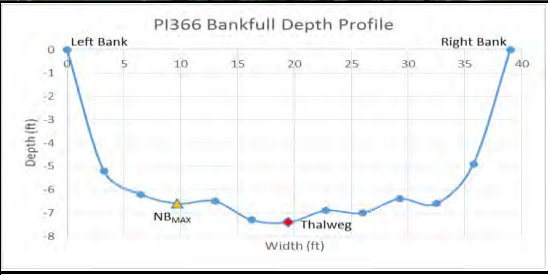
Horse Creek			Severity Scale: 5.5-Moderate	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21812 Longitude: -81.99457			County: Desoto Site Number: PI363 Reach Length: 37 ft. Landowner: VHC Management Co.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (26.47)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>5.5</b>		
Notes: 303d: Impaired - Public Water Supply (BOD & DO)				
Restoration Option 1				



Horse Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21802 Longitude: -81.99496			County: Desoto Site Number: PI364 Reach Length: 22 ft. Landowner: VHC Management Co.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.22)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Notes: 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			

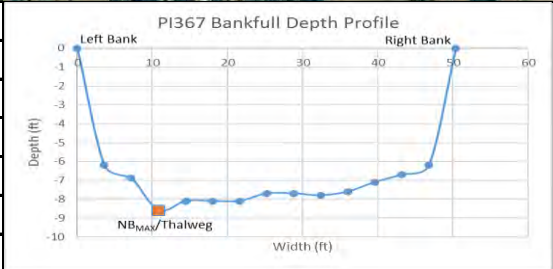


Horse Creek			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21653 Longitude: -81.99493			County: Desoto Site Number: PI365 Reach Length: 90 ft. Landowner: VHC Management Co.	
 				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (31.62)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		6.0		
Notes: 303d: Impaired - Public Water Supply (BOD & DO)				
Restoration Option 1				



Horse Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21620 Longitude: -81.99537			County: Desoto Site Number: PI366 Reach Length: 100 ft. Landowner: VHC Management Co.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.98)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Notes: 303d: Impaired - Public Water Supply (BOD & DO)			
Restoration Option 1			

Charlie Creek			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37002 Longitude: -81.81011			County: Hardee Site Number: PI367 Reach Length: 250 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.98)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.5	
303d: Impaired - Fecal Coliform			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture
LB Landuse: Pasture, Natural Forest



# Charlie Creek

Severity Scale: 6.25-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37004

Longitude: -81.81023

County: Hardee

Site Number: PI368

Reach Length: 155 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (34.45)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	10 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.25





Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture

303d: Impaired - Fecal Coliform

Restoration Option 1, restore along with PI369



Charlie Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37024 Longitude: -81.81100			County: Hardee Site Number: PI369 Reach Length: 165 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (26.35)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
303d: Impaired - Fecal Coliform			
Restoration Option 1, restore along with PI368			



Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Clay
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture

# Charlie Creek

Severity Scale: 7.25-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37088

Longitude: -81.81065

County: Hardee

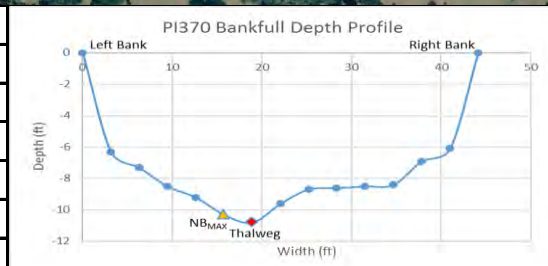
Site Number: PI370

Reach Length: 580 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Very High (40.35)	1.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
Severity Scale:		7.25



## Additional Site Features

Stream Channel Woody Material: Infrequent

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate



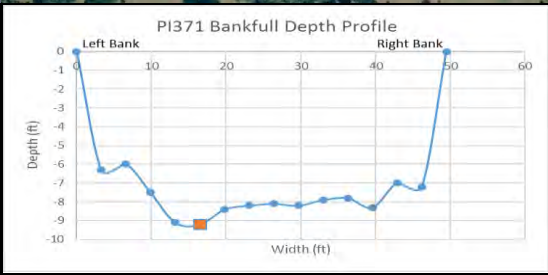
RB Landuse: Pasture

LB Landuse: Pasture

303d: Impaired - Fecal Coliform

Restoration Option 1



Charlie Creek			Severity Scale: 7.0-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37210 Longitude: -81.81020			County: Hardee Site Number: PI371 Reach Length: 250 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (37.35)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Pasture LB Landuse: Pasture	
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		7.0		
303d: Impaired - Fecal Coliform				
Restoration Option 1				



# Charlie Creek

Severity Scale: 6.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37226

Longitude: -81.80072

County: Hardee

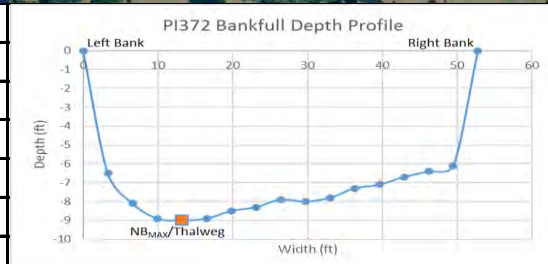
Site Number: PI372

Reach Length: 250 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	High (29.72)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>6.75</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: High

RB Landuse: Pasture, Natural Forest

LB Landuse: Pasture

303d: Impaired - Fecal Coliform

Restoration Option 1

# Charlie Creek

Severity Scale: 6.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37299

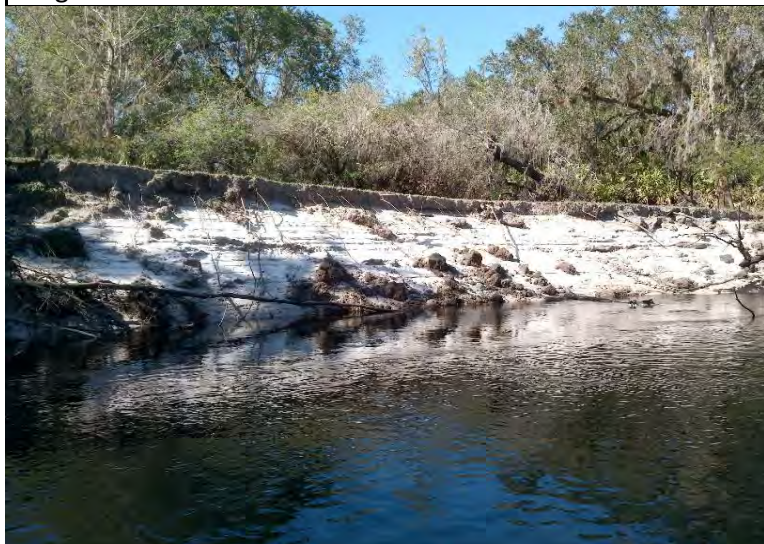
Longitude: -81.81113

County: Hardee

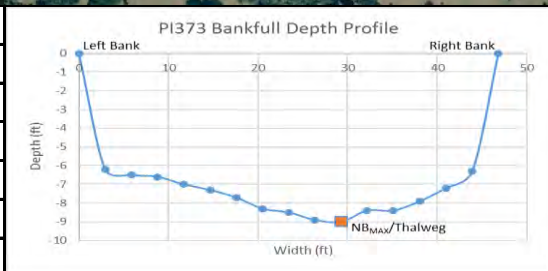
Site Number: PI373

Reach Length: 270 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	High (34.76)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.75



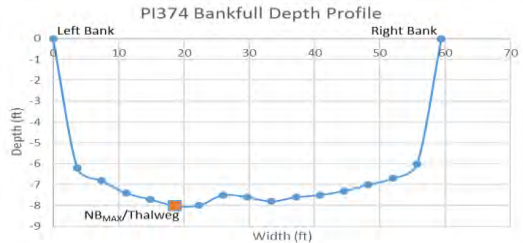


Additional Site Features
Stream Channel Woody Material: Extensive
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest



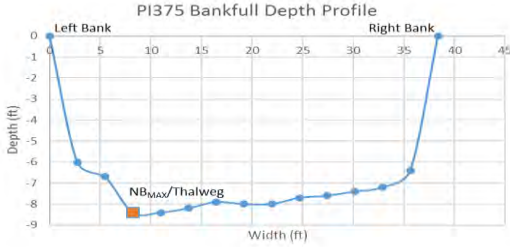
303d: Impaired - Fecal Coliform



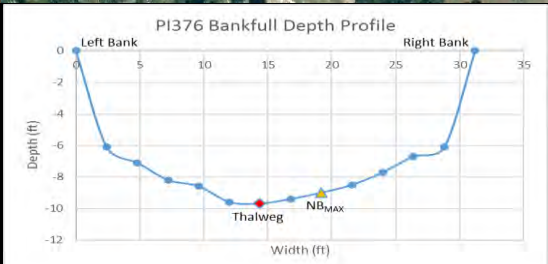
Restoration Option 1





Charlie Creek			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37350 Longitude: -81.81121			County: Hardee Site Number: PI374 Reach Length: 95 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (36.09)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture, Natural Forest
Notes: Tractor/cattle crossing; 303d: Impaired - Fecal Coliform			
Restoration Option 1			

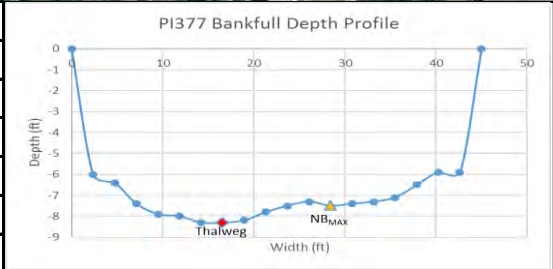


Charlie Creek			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37406 Longitude: -81.81055			County: Hardee Site Number: PI375 Reach Length: 45 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.29)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.5	Additional Site Features
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture
			LB Landuse: Pasture
303d: Impaired - Fecal Coliform			
Restoration Option 1			

Charlie Creek			Severity Scale: 6.5-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37435 Longitude: -81.81062			County: Hardee Site Number: PI376 Reach Length: 130 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (26.57)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandstone + Clay Near Bank Stress: Low RB Landuse: Pasture, Natural Forest, Farm Rd LB Landuse: Pasture, Natural forest	
LB: Riparian Buffer:	20 ft.	0.75		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>6.5</b>		
303d: Impaired - Fecal Coliform				
Restoration Option 1				



Charlie Creek			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37501 Longitude: -81.81022			County: Hardee Site Number: PI377 Reach Length: 190 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (39.26)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
303d: Impaired - Fecal Coliform			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest



# Charlie Creek

Severity Scale: 6.5-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37481

Longitude: -81.80946

County: Hardee

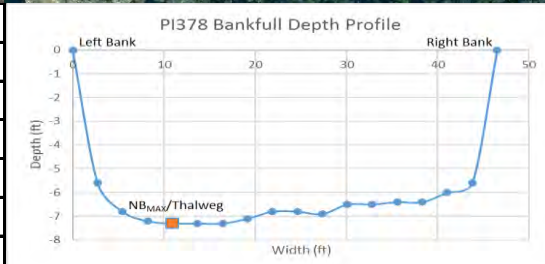
Site Number: PI378

Reach Length: 95 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (34.04)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	20 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.5



## Additional Site Features

Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural forest

303d: Impaired - Fecal Coliform

Restoration Option 1

# Charlie Creek

Severity Scale: 6.5-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37475

Longitude: -81.80927

County: Hardee

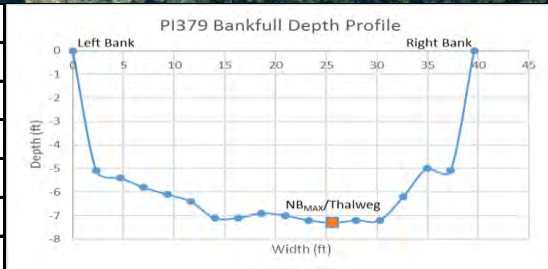
Site Number: PI379

Reach Length: 240 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (36.31)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	20 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.5



Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest

303d: Impaired - Fecal Coliform

Restoration Option 1



# Charlie Creek

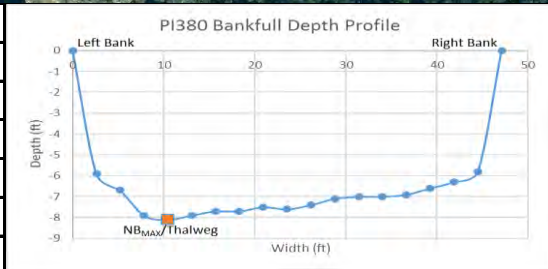
Severity Scale: 6.0-Moderate

Watershed: Peace River  
Subwatershed: Lower Charlie Creek  
Latitude: 27.37440  
Longitude: -81.80907

County: Hardee  
Site Number: PI380  
Reach Length: 160 ft.  
Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (36.17)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.0



Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Pasture

303d: Impaired - Fecal Coliform

Restoration Option 1



# Charlie Creek

Severity Scale: 6.5-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 29.37396

Longitude: -81.80944

County: Hardee

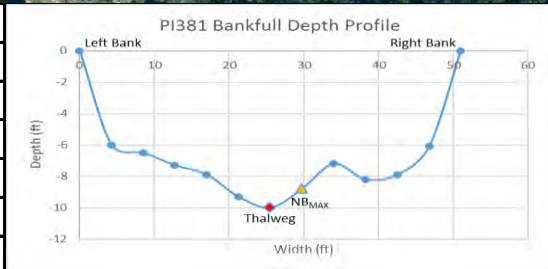
Site Number: PI381

Reach Length: 65 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	High (33.71)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.5



Additional Site Features
Stream Channel Woody Material: extensive
Impoundments: None
Substrate Composition: Meedium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest

303d: Impaired - Fecal Coliform

Restoration Option 1

# Charlie Creek

Severity Scale: 6.5-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37347

Longitude: -81.80971

County: Hardee

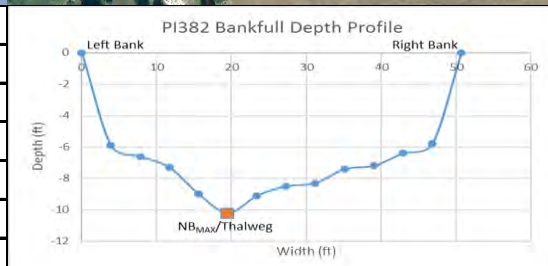
Site Number: PI382

Reach Length: 165 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	Moderate (28.04)	0.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	20 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.5



## Additional Site Features

Stream Channel Woody Material: Infrequent

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sandy Clay

Near Bank Stress: Moderate



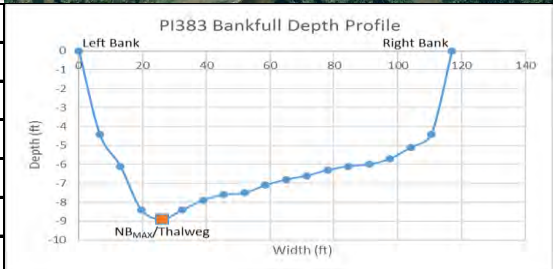
RB Landuse: Pature, Natural Forest

LB Landuse: Pature, Natural Forest



303d: Impaired - Fecal Coliform

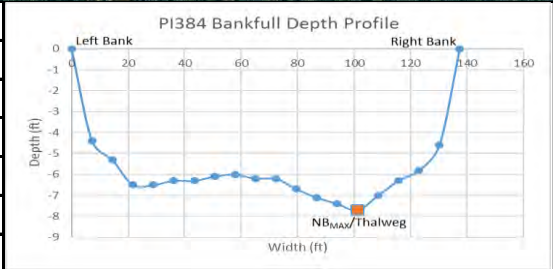
Restoration Option 1





Peace River			Severity Scale: 6.5-Moderate	
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.21186 Longitude: -81.88622			County: Desoto Site Number: PI383 Reach Length: 345 ft. Landowner: Garner Grove & Cattle Co	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (38.70)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		6.5	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Pasture, Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				

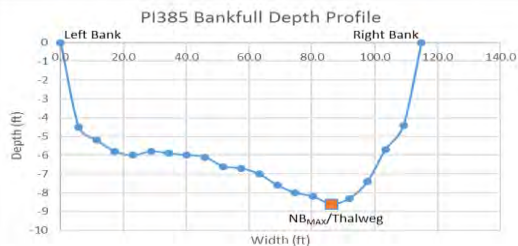


Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.21015 Longitude: -81.88668			County: Desoto Site Number: PI384 Reach Length: 475 ft. Landowner: Garner Grove & Cattle Co
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.52)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2 or 3			


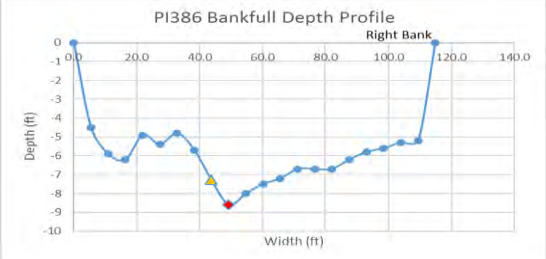


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Natural Forest, Pasture



Peace River			Severity Scale: 7.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.20726 Longitude: -81.88878			County: Desoto Site Number: PI385 Reach Length: 200 ft. Landowner: Garner Grove & Cattle Co
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High (41.95)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	<b>Additional Site Features</b>
Fish Passage Barrier:	None	0	Stream Channel Woody Material: Infrequent
RB: Riparian Buffer:	0 ft.	0.75	Impoundments: None
LB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
RB: Floodplain Access:	Full	0	Bank Material: Sand
LB: Floodplain Access:	Full	0	Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
	<b>Severity Scale:</b>	<b>7.25</b>	LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1, restoration should be done in conjunction with sites PI386 and PI055.			

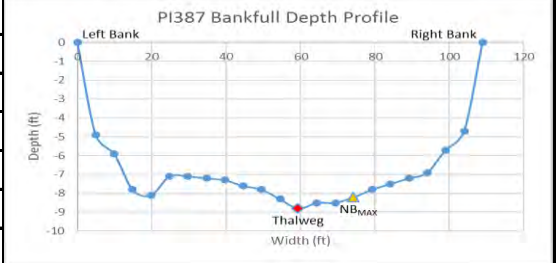






Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.20687 Longitude: -81.88928			County: Desoto Site Number: PI386 Reach Length: 245 ft. Landowner: Garner Grove & Cattle Co
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.72)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>6.5</b>	
			Additional Site Features
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 2, restoration should be done in conjunction with sites PI385 and PI055.			

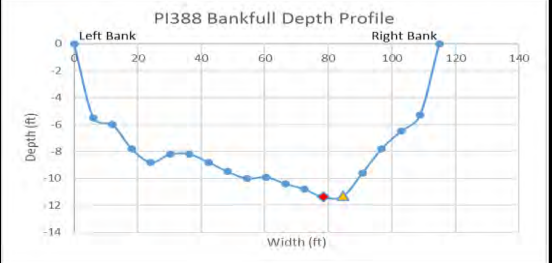


Peace River			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.20307 Longitude: -81.88953			County: Desoto Site Number: PI387 Reach Length: 315 ft. Landowner: GERACI D D TR
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (43.07)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	80 ft.	0.25	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





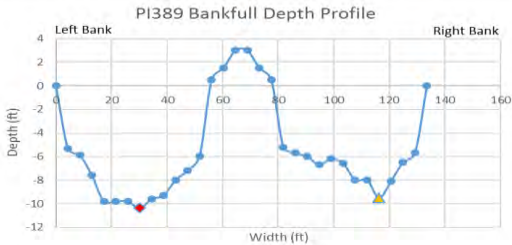
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest

Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.18323 Longitude: -81.88690			County: Desoto Site Number: PI388 Reach Length: 160 ft. Landowner: GERACI D D TR
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (37.93)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





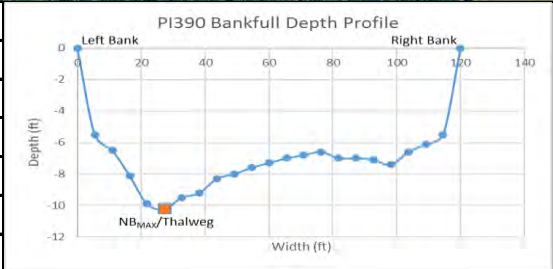
Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Natural Forest, Pasture



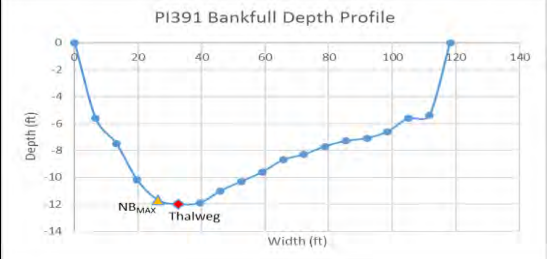


Peace River			Severity Scale: 6.5-Moderate	
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17935 Longitude: -81.88579			County: Desoto Site Number: PI389 Reach Length: 180 ft. Landowner: GERACI D D TR	
				
Risk Factor	Ranking	Score	PI389 Bankfull Depth Profile	
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High (41.94)	1.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0	Additional Site Features	
RB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Numerous	
LB: Riparian Buffer:	60 ft.	0.25	Impoundments: Woody Material Jams	
RB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand	
LB: Floodplain Access:	Full	0	Bank Material: Sand	
Severity Scale:		6.5	Near Bank Stress: Low	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Natural Forest, Pasture	
Notes: Island; 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)				
Restoration Option 1				





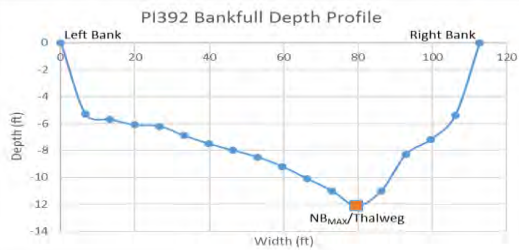
Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17918 Longitude: -81.88514			County: Desoto Site Number: PI390 Reach Length: 210 ft. Landowner: PULLING JOHN A JR
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.89)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			





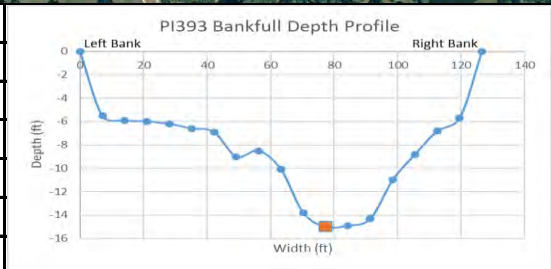
Peace River			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17879 Longitude: -81.89433			County: Desoto Site Number: PI391 Reach Length: 210 ft. Landowner: GERACI D D TR
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (27.21)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.0</b>	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue)			
Restoration Option 1			



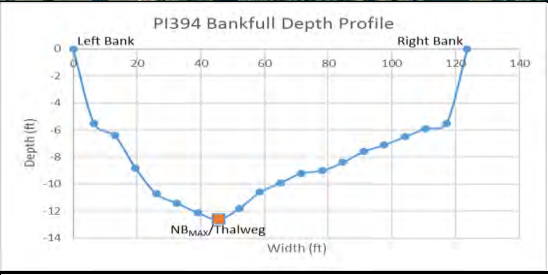


Peace River			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.17912 Longitude: -81.89562			County: Desoto Site Number: PI392 Reach Length: 320 ft. Landowner: GERACI D D TR
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (39.39)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (fecal coliform, mercury in fish tissue); Tall fence along bank w/parts broken down and second fence built along gaps.			
Restoration Option 1			



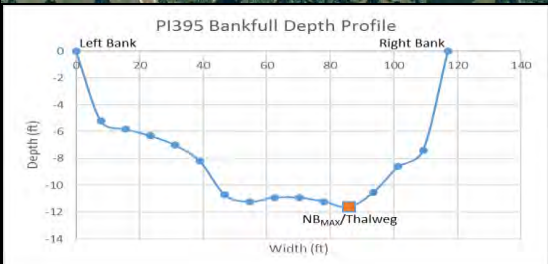






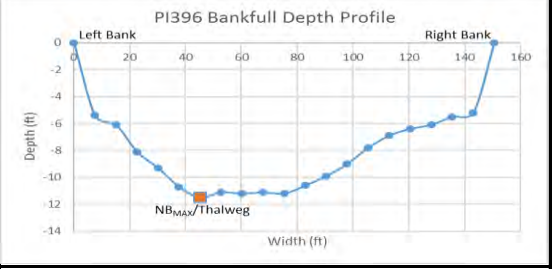
Peace River			Severity Scale: 5.5-Moderate	
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.16909 Longitude: -81.90128			County: Desoto Site Number: PI393 Reach Length: 90 ft. Landowner: GERACI D D TR	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (31.01)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture	
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.5		
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				



Peace River			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.16624 Longitude: -81.90263			County: Desoto Site Number: PI394 Reach Length: 700 ft. Landowner: GERACI D D TR
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.31)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.25</b>	Additional Site Features
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

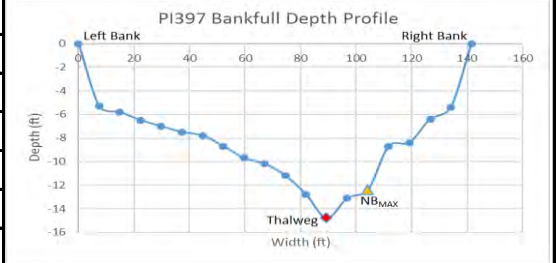


Peace River			Severity Scale: 2.75-Low	
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.16504 Longitude: -81.90207			County: Desoto Site Number: PI395 Reach Length: 450 ft. Landowner: PEACE RIVER CHARTERS LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (13.15)	0		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale: 2.75			Bank Material: Clay	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				





Peace River			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.1550 Longitude: -81.92175			County: Desoto Site Number: PI396 Reach Length: 780 ft. Landowner: ROBERTSON SUSIE TR
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.01)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>3.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			

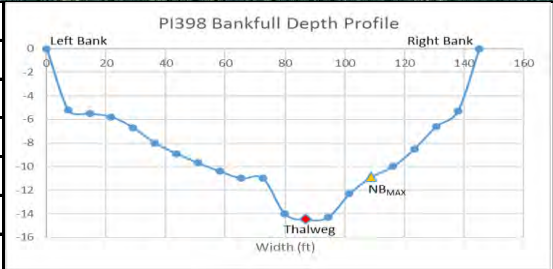
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.15582 Longitude: -81.92352			County: Desoto Site Number: PI397 Reach Length: 600 ft. Landowner: ROBERTSON FAMILY LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (37.04)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	70 ft.	0.25	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		4.25	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			





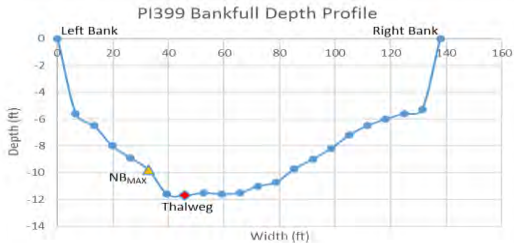
Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest





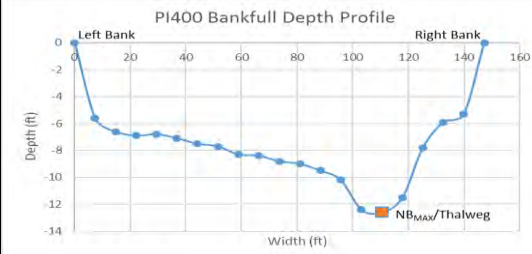
Peace River			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.14689 Longitude: -81.93165			County: Desoto Site Number: PI398 Reach Length: 575 ft. Landowner: JOHNSON HOMESTEAD LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (10.69)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Clay Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.25</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			







Peace River			Severity Scale: 4.5-Moderate	
Watershed: Peace River Subwatershed: Johnson Lake Latitude: 27.14033 Longitude: -81.93670			County: Desoto Site Number: PI399 Reach Length: 550 ft. Landowner: ROBERTSON SUSIE TR	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (12.95)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		4.5	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Clay	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)				
Restoration Option 1				

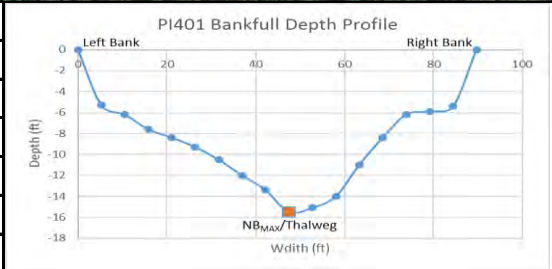
Peace River			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.13781 Longitude: -81.94142			County: Desoto Site Number: PI400 Reach Length: 130 ft. Landowner: HAU II LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (21.95)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



Additional Site Features	
Stream Channel Woody Material:	Numerous
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sandy Clay
Near Bank Stress:	High
RB Landuse:	Natural Forest, Pasture
LB Landuse:	Natural Forest, Pasture


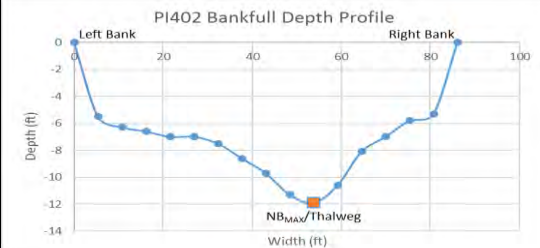


Peace River			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.13738 Longitude: -81.94576			County: Desoto Site Number: PI401 Reach Length: 115 ft. Landowner: HAU II LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Moderate (21.75)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		5.75	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Numerous
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy Clay
Near Bank Stress: Moderate
RB Landuse: Pasture
LB Landuse: Natural Forest



Peace River			Severity Scale: 2.75-Low
Watershed: Peace River Subwatershed: Lettuce Lake Latitude: 27.13329 Longitude: -81.95090			County: Desoto Site Number: PI402 Reach Length: 370 ft. Landowner: HAU II LLC
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (16.33)	0	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.75</b>	
Notes: 303d: Impaired - Aquatic Life Harvesting (mercury in fish tissue)			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Clay
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Restoration Option 1			

# Charlie Creek

Severity Scale: 6.25-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37563

Longitude: -81.79790

County: Hardee

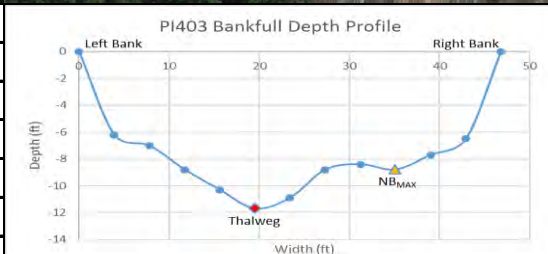
Site Number: PI403

Reach Length: 115 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (33.32)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>6.25</b>



## Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Low

RB Landuse: Natural Forest, Pasture

LB Landuse: Natural Forest, Pasture

Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1



# Charlie Creek

Severity Scale: 6.5-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37623

Longitude: -81.79944

County: Hardee

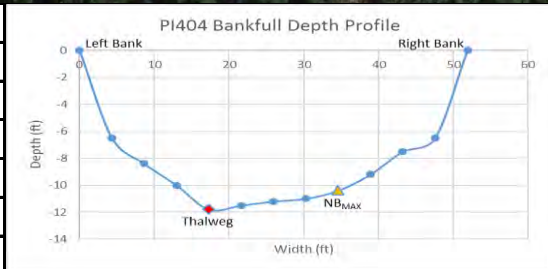
Site Number: PI404

Reach Length: 520 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (31.35)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	20 ft.	0.75
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
Severity Scale:		6.5



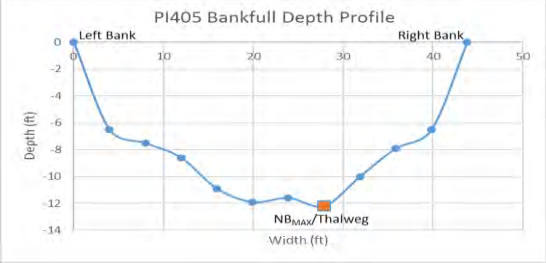


Additional Site Features
Stream Channel Woody Material: Extensive
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest, Pasture
LB Landuse: Pasture, Natural Forest

Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1



Charlie Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37329 Longitude: -81.80103			County: Hardee Site Number: PI405 Reach Length: 350 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.97)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	Additional Site Features
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.25	
Notes: 303d: Impaired - Fecal Coliform			Stream Channel Woody Material: Numerous
Restoration Option 1			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture, Natural Forest

# Charlie Creek

Severity Scale: 5.5-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37253

Longitude: -81.80000

County: Hardee

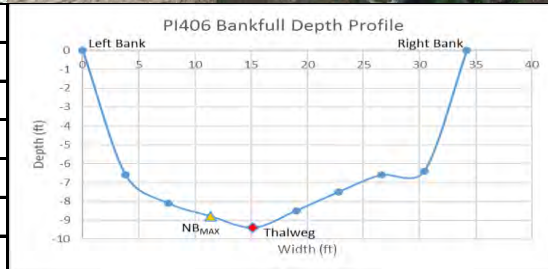
Site Number: PI406

Reach Length: 400 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (28.92)	0.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	60 ft.	0.25
LB: Riparian Buffer:	60 ft.	0.25
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Partial	0.25
Severity Scale:		5.5



## Additional Site Features

Stream Channel Woody Material: Infrequent

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sandy Clay

Near Bank Stress: Moderate



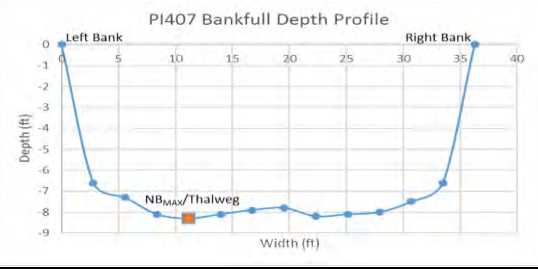
RB Landuse: Natural Forest, Pasture

LB Landuse: Natural Forest, Pasture

Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1



Charlie Creek			Severity Scale: 5.0-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37171 Longitude: -81.80099			County: Hardee Site Number: PI408 Reach Length: 420 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very Low (7.69)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.0	Additional Site Features	
			Stream Channel Woody Material: Moderate	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sandy Clay	
			Near Bank Stress: High	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Commercial	
Notes: 303d: Impaired - Fecal Coliform; Land adjacent to bank has been cleared and excavated by DOT to create wetland habitat, but is producing high runoff since it was not stabilized.				
Restoration Option 1				



# Charlie Creek

Severity Scale: 5.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37136

Longitude: -81.80219

County: Hardee

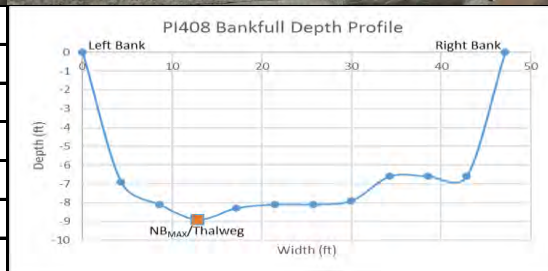
Site Number: PI408

Reach Length: 250 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (23.80)	0.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>5.75</b>



## Additional Site Features

Stream Channel Woody Material: Extensive

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sandy Clay



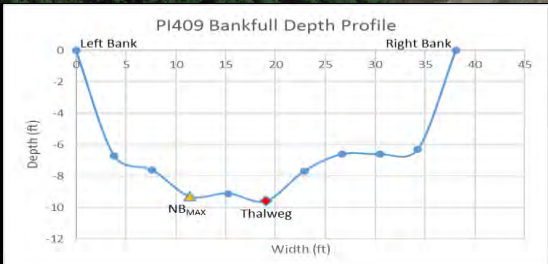
Near Bank Stress: High

RB Landuse: Pasture, Natural Forest



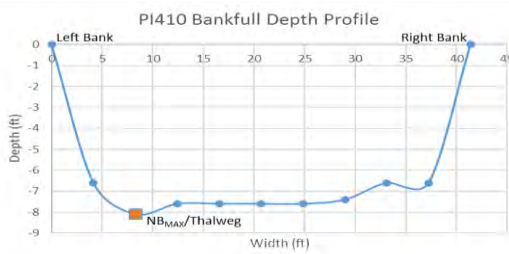
LB Landuse: Pasture, Natural Forest

Notes: 303d: Impaired - Fecal Coliform



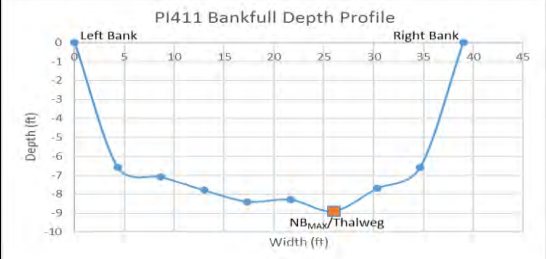
Restoration Option 1, restoration should be done in conjunction with site PI407

Charlie Creek			Severity Scale: 7.0-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: -27.37016 Longitude: -81.80403			County: Hardee Site Number: PI409 Reach Length: 500 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Very High (41.30)	1.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25	<b>Additional Site Features</b>	
LB: Riparian Buffer:	0 ft.	0.75	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale:		7.0	Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Pasture, Natural Forest	
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				



Charlie Creek			Severity Scale: 5.5-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37150 Longitude: -81.80498			County: Hardee Site Number: PI410 Reach Length: 210 ft. Landowner: Ben Hill Griffin Inc.	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (26.64)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest, Pasture	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.5		
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				



Charlie Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37194 Longitude: -81.80422			County: Hardee Site Number: PI411 Reach Length: 1,120 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (34.36)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	
Notes: 303d: Impaired - Fecal Coliform			<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture, Natural Forest
Restoration Option 1			

# Charlie Creek

Severity Scale: 6.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37230

Longitude: -81.80470

County: Hardee

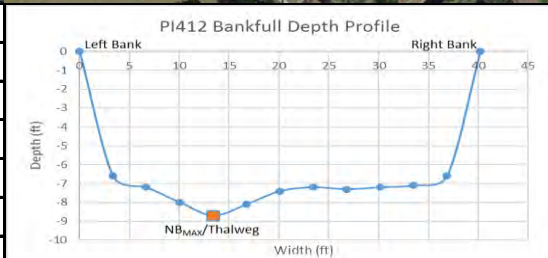
Site Number: PI412

Reach Length: 680 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	High (37.42)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	20 ft.	0.75
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>6.75</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: High

RB Landuse: Pasture, Natural Forest

LB Landuse: Pasture, Natural Forest

Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1



# Charlie Creek

Severity Scale: 6.25-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.37194

Longitude: -81.80422

County: Hardee

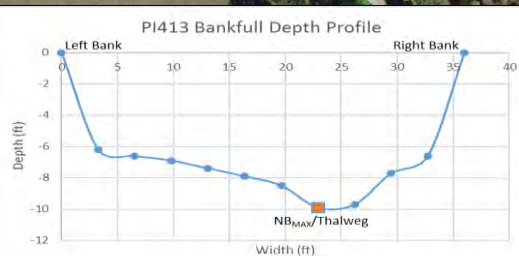
Site Number: PI411

Reach Length: 530 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (33.54)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	20 ft.	0.75
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		6.25



## Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate

RB Landuse: Pasture, Natural Forest

LB Landuse: Pasture, Natural Forest

Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1



# Charlie Creek

Severity Scale: 6.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.27312

Longitude: -81.80613

County: Hardee

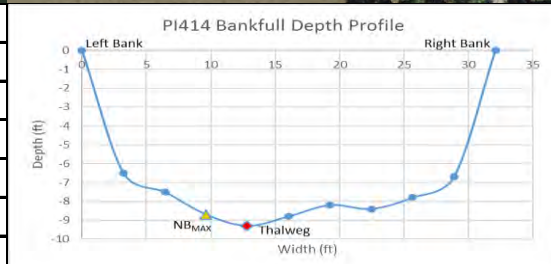
Site Number: PI414

Reach Length: 370 ft.

Landowner: Ben Hill Griffin Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Poor	1.5
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	High (35.50)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>6.75</b>



## Additional Site Features

Stream Channel Woody Material: Dominating

Impoundments: Woody Material Jams

Substrate Composition: Medium Sand

Bank Material: Sand


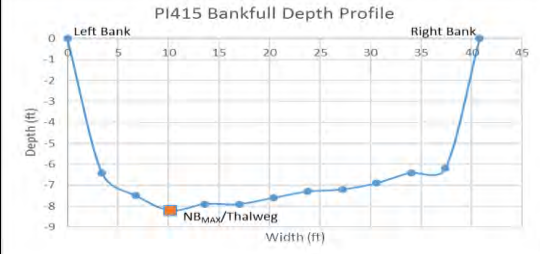
Near Bank Stress: Moderate

RB Landuse: Pasture, Natural Forest



LB Landuse: Pasture, Natural Forest

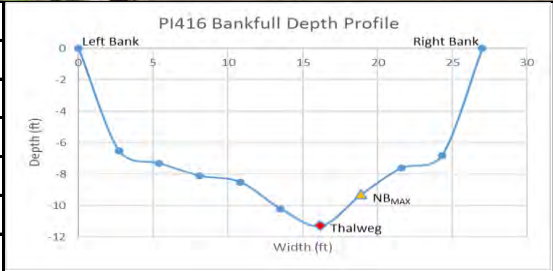
Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1

Charlie Creek			Severity Scale: 6.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37299 Longitude: -81.80750			County: Hardee Site Number: PI415 Reach Length: 465 ft. Landowner: Ben Hill Griffin Inc.
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (31.79)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	20 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.5</b>	Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Fecal Coliform; Middle section of reach not as bad as upper/lower reach			
- greater root depth and surface protection in middle.			
Restoration Option 1			



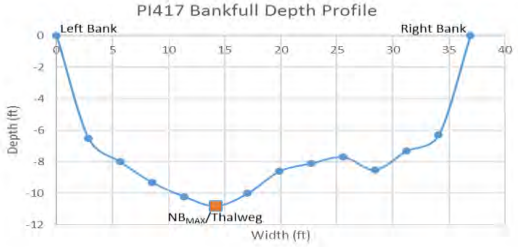


Charlie Creek			Severity Scale: 7.0-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37402 Longitude: -81.80852			County: Hardee Site Number: PI416 Reach Length: 310 ft. Landowner: Ben Hill Griffin Inc.	
 				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	High (38.95)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75		
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		7.0		
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				



Additional Site Features	
Stream Channel Woody Material: Moderate	
Impoundments: Woody Material Jams	
Substrate Composition: Medium Sand	
Bank Material: Sand	
Near Bank Stress: Moderate	
RB Landuse: Pasture, Natural Forest	
LB Landuse: Pasture, Natural Forest	



Charlie Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.37353 Longitude: -81.80897			County: Hardee Site Number: PI417 Reach Length: 65 ft. Landowner: Ben Hill Griffin Inc.
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (20.28)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Fecal Coliform			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Clay
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture, Natural Forest
Restoration Option 1			

# Charlie Creek

Severity Scale: 8.0-High

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.40631

Longitude: -81.74516

County: Hardee

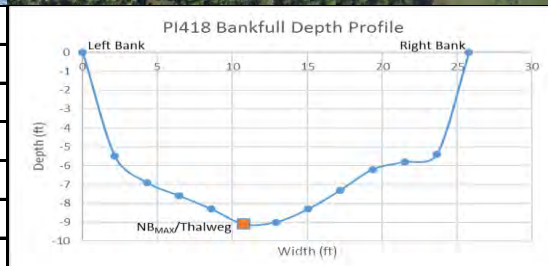
Site Number: PI418

Reach Length: 360 ft.

Landowner: The Property LLC



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	Very High (39.83)	1.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	Present	1.5
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	60 ft.	0.25
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>8.0</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium sand

Bank Material: Sand

Near Bank Stress: Moderate



RB Landuse: Natural Forest, Pasture

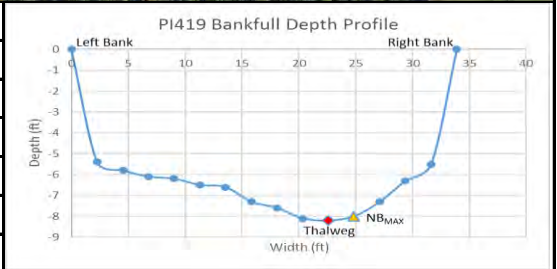
LB Landuse: Pasture, Natural Forest

Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1



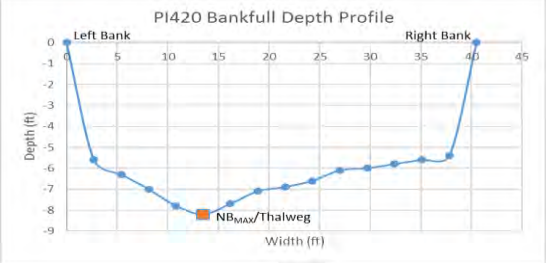




Charlie Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.40536 Longitude: -81.74487			County: Hardee Site Number: PI419 Reach Length: 100 ft. Landowner: WHITE MARSH LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (35.22)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			

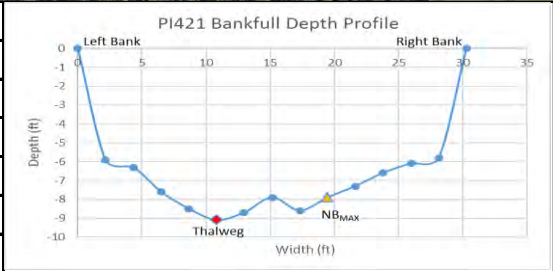


Additional Site Features	
Stream Channel Woody Material:	Moderate
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	High
RB Landuse:	Pasture, Natural Forest
LB Landuse:	Pasture, Natural Forest





Charlie Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.40471 Longitude: -81.74500			County: Hardee Site Number: PI420 Reach Length: 215 ft. Landowner: The Property LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (26.28)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.75</b>	
Notes: 303d: Impaired - Fecal Coliform			<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Restoration Option 1			

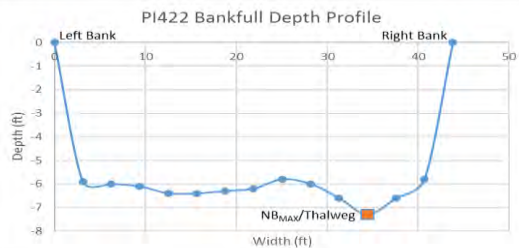
Peace River			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.40448 Longitude: -81.74642			County: Hardee Site Number: PI421 Reach Length: 140 ft. Landowner: WHITE MARSH LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.36)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
Severity Scale:		6.0	
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandstone
Near Bank Stress: Low
RB Landuse: Pasture
LB Landuse: Pasture, Natural Forest



Charlie Creek			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.40272 Longitude: -81.74577			County: Hardee Site Number: PI422 Reach Length: 120 ft. Landowner: WHITE MARSH LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Very High (40.57)	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.75</b>	
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			



#### Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium sand



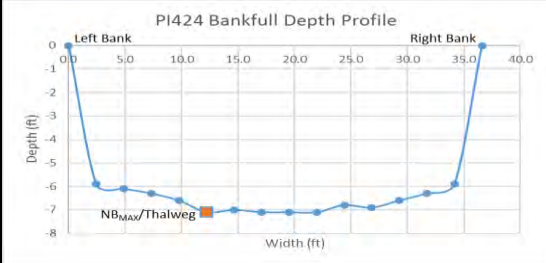
Bank Material: Sand



Near Bank Stress: High

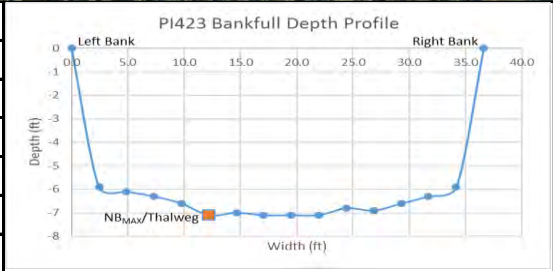
RB Landuse: Pasture, Natural Forest

LB Landuse: Pasture, Natural Forest





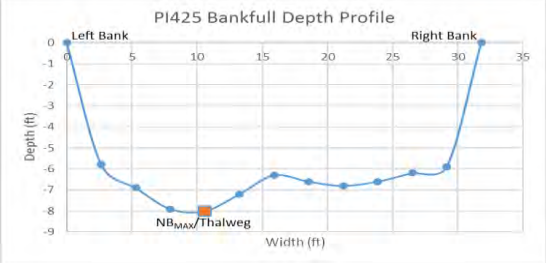
Charlie Creek			Severity Scale: 6.0-Moderate		
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.40217 Longitude: -81.74583			County: Hardee Site Number: PI424 Reach Length: 65 ft. Landowner: The Property LLC		
					
Risk Factor	Ranking	Score			
Pfankuch-Channel Stability:	Fair	1			
Channel Alteration:	None	0			
Bank Erosion:	Active	1			
BEHI:	High (32.95)	1			
Local NPSP:	Obvious Sources	1.5			
Shoring Structures:	None	0			
Pipe Discharge:	None	0			
Water Odor:	Normal	0			
Fish Passage Barrier:	None	0			
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Pasture, Natural Forest LB Landuse: Pasture, Natural Forest		
LB: Riparian Buffer:	40 ft.	0.5			
RB: Floodplain Access:	Full	0			
LB: Floodplain Access:	Partial	0.25			
Severity Scale:		6.0			
Notes: 303d: Impaired - Fecal Coliform					
Restoration Option 1					

Charlie Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.40257 Longitude: -81.74524			County: Hardee Site Number: PI423 Reach Length: 160 ft. Landowner: The Property LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (32.95)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
Severity Scale:		6.0	
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture, Natural Forest



Charlie Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.40076 Longitude: -81.74656			County: Hardee Site Number: PI425 Reach Length: 330 ft. Landowner: The Property LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High (34.83)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	60 ft.	0.25	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>6.25</b>	
Notes: 303d: Impaired - Fecal Coliform			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Natural Forest, Pasture
Restoration Option 1			



# Charlie Creek

Severity Scale: 5.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.39754

Longitude: -81.74921

County: Hardee

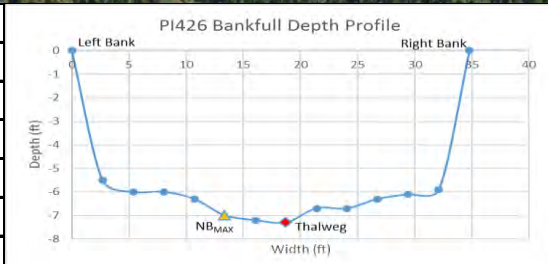
Site Number: PI426

Reach Length: 160 ft.

Landowner: The Property LLC



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (34.16)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>5.75</b>



## Additional Site Features

Stream Channel Woody Material: Numerous

Impoundments: None

Substrate Composition: Medium sand

Bank Material: Sand



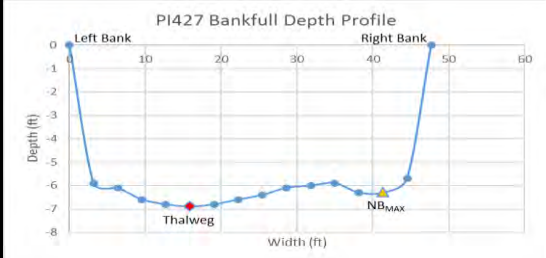
Near Bank Stress: Low

RB Landuse: Natural Forest, Pasture



LB Landuse: Natural Forest, Pasture

Notes: Small creek coming in above site w/unpaved road crossing; Notes: 303d: Impaired - Fecal Coliform



Restoration Option 1



Charlie Creek			Severity Scale: 5.25-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.38950 Longitude: -81.76151			County: Hardee Site Number: PI427 Reach Length: 130 ft. Landowner: WHITE MARSH LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (39.21)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Partial	0.25		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>5.25</b>		
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				

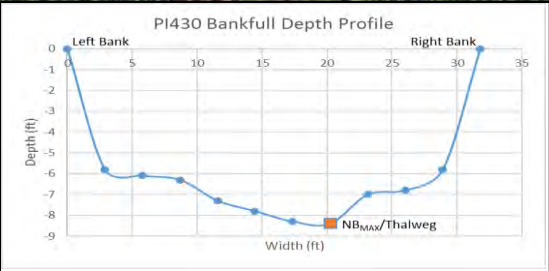


Charlie Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.39864 Longitude: -81.74778			County: Hardee Site Number: PI428 Reach Length: 95 ft. Landowner: The Property LLC
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.05)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	0 ft.	0.75	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Low (1.12)
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>6.0</b>	LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			



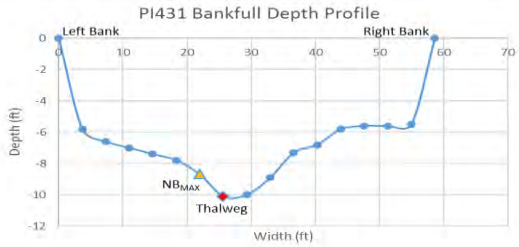


Charlie Creek			Severity Scale: 5.5-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.39668 Longitude: -81.74976			County: Hardee Site Number: PI429 Reach Length: 330 ft. Landowner: The Property LLC	
 				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Bank Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (29.48)	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5		Substrate Composition: Medium Sand
LB: Riparian Buffer:	0 ft.	0.75		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: Low (1.19)
LB: Floodplain Access:	Partial	0.25		RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>5.5</b>		LB Landuse: Pasture, Natural Forest
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				



Charlie Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.39671 Longitude: -81.75104			County: Hardee Site Number: PI430 Reach Length: 140 ft. Landowner: WHITE MARSH LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (30.13)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Pasture, Natural Forest
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	60 ft.	0.25	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			



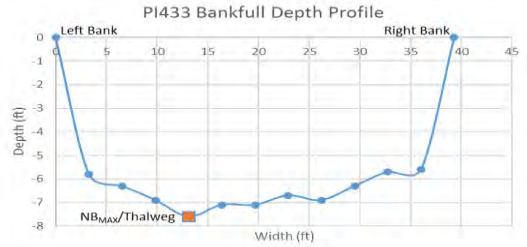






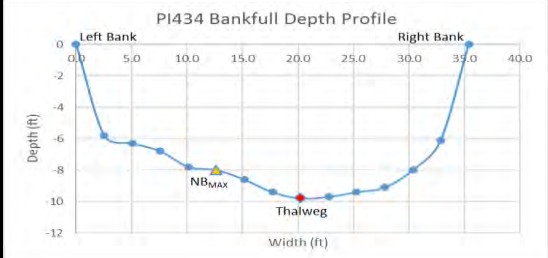
Charlie Creek			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.38609 Longitude: -81.76437			County: Hardee Site Number: PI431 Reach Length: 200 ft. Landowner: WHITE MARSH LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (37.97)	1		
Local NPSP:	Slight Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		4.0	Additional Site Features	
			Stream Channel Woody Material: Extensive	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				





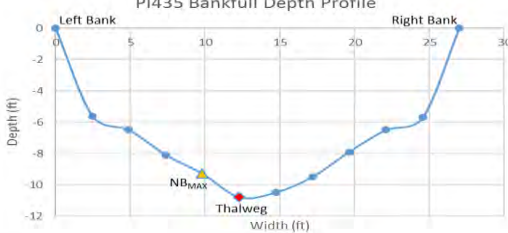
Charlie Creek			Severity Scale: 3.75-Low
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.38725 Longitude: -81.76551			County: Hardee Site Number: PI432 Reach Length: 400 ft. Landowner: WHITE MARSH LLC
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.25)	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Very Low (0.94)
LB: Floodplain Access:	Full	0	RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>3.75</b>	LB Landuse: Natural Forest
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			

Charlie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.38675 Longitude: -81.76667			County: Hardee Site Number: PI433 Reach Length: 105 ft. Landowner: WHITE MARSH LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (35.50)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.5		
Notes: 303d: Impaired - Fecal Coliform			Additional Site Features	
Restoration Option 1			Stream Channel Woody Material: Extensive	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest, Pasture	



Charlie Creek			Severity Scale: 3.25-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.38553 Longitude: -81.76711			County: Hardee Site Number: PI434 Reach Length: 500 ft. Landowner: WHITE MARSH LLC	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Moderate (25.69)	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		3.25	Additional Site Features	
			Stream Channel Woody Material: Extensive	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sandy Clay	
			Near Bank Stress: Low	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				



Charlie Creek			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.43836 Longitude: -81.72526			County: Hardee Site Number: PI435 Reach Length: 620 ft. Landowner: DH Ranch Inc.
 			
Risk Factor	Ranking	Score	<div> PI435 Bankfull Depth Profile  </div>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (24.87)	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>2.5</b>	Additional Site Features
			Stream Channel Woody Material: Numerous
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest
Notes: Good riparian; 303d: NA			
Restoration Option 1			

# Charlie Creek

Severity Scale: 2.5-Low

Watershed: Peace River

Subwatershed: Middle Charlie Creek

Latitude: 27.43894

Longitude: -81.72613

County: Hardee

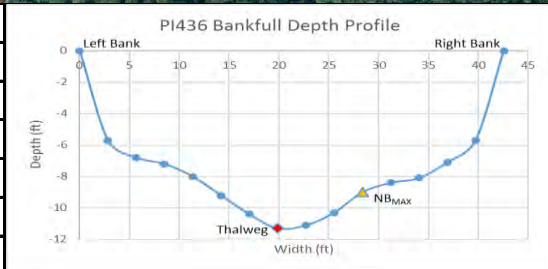
Site Number: PI436

Reach Length: 325 ft.

Landowner: DH Ranch Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (22.96)	0.5
Local NPSP:	No Evidence	0
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		2.5



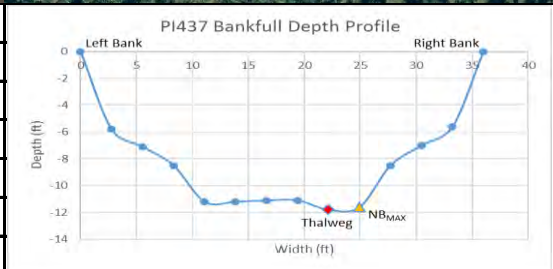


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy Clay
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Natural Forest



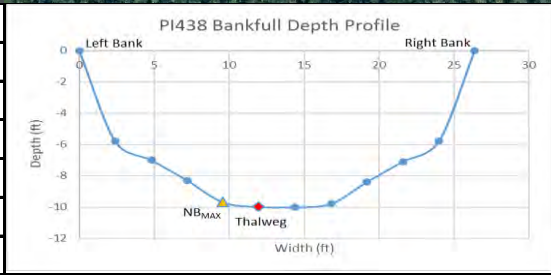
Notes: 303d: NA

Restoration Option 1



Charlie Creek			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.43743 Longitude: -81.72792			County: Hardee Site Number: PI437 Reach Length: 105 ft. Landowner: Square D Ranch LTD LLP	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (22.77)	0.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b>	
LB: Riparian Buffer:	100 ft.	0	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Partial	0.25	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale: 3.75			Bank Material: Sandy Clay	
			Near Bank Stress: Moderate	
			RB Landuse: Natural Forest	
			LB Landuse: Natural Forest	
Notes: Cattle fencing approx. 100 ft. from stream; 303d: NA				
Restoration Option 1				



Charlie Creek			Severity Scale: 3.75-Low																																														
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.43576 Longitude: -81.72855			County: Hardee Site Number: PI438 Reach Length: 270 ft. Landowner: Square D Ranch LTD LLP																																														
																																																	
<table><thead><tr><th>Risk Factor</th><th>Ranking</th><th>Score</th></tr></thead><tbody><tr><td>Pfankuch-Channel Stability:</td><td>Fair</td><td>1</td></tr><tr><td>Channel Alteration:</td><td>None</td><td>0</td></tr><tr><td>Bank Erosion:</td><td>Active</td><td>1</td></tr><tr><td>BEHI:</td><td>Moderate (19.57)</td><td>0.5</td></tr><tr><td>Local NPSP:</td><td>Slight Potential</td><td>0.5</td></tr><tr><td>Shoring Structures:</td><td>None</td><td>0</td></tr><tr><td>Pipe Discharge:</td><td>None</td><td>0</td></tr><tr><td>Water Odor:</td><td>Normal</td><td>0</td></tr><tr><td>Fish Passage Barrier:</td><td>None</td><td>0</td></tr><tr><td>RB: Riparian Buffer:</td><td>100 ft.</td><td>0</td></tr><tr><td>LB: Riparian Buffer:</td><td>40 ft.</td><td>0.5</td></tr><tr><td>RB: Floodplain Access:</td><td>Full</td><td>0</td></tr><tr><td>LB: Floodplain Access:</td><td>Partial</td><td>0.25</td></tr><tr><td colspan="2">Severity Scale:</td><td>3.75</td></tr></tbody></table>			Risk Factor	Ranking	Score	Pfankuch-Channel Stability:	Fair	1	Channel Alteration:	None	0	Bank Erosion:	Active	1	BEHI:	Moderate (19.57)	0.5	Local NPSP:	Slight Potential	0.5	Shoring Structures:	None	0	Pipe Discharge:	None	0	Water Odor:	Normal	0	Fish Passage Barrier:	None	0	RB: Riparian Buffer:	100 ft.	0	LB: Riparian Buffer:	40 ft.	0.5	RB: Floodplain Access:	Full	0	LB: Floodplain Access:	Partial	0.25	Severity Scale:		3.75		
Risk Factor	Ranking	Score																																															
Pfankuch-Channel Stability:	Fair	1																																															
Channel Alteration:	None	0																																															
Bank Erosion:	Active	1																																															
BEHI:	Moderate (19.57)	0.5																																															
Local NPSP:	Slight Potential	0.5																																															
Shoring Structures:	None	0																																															
Pipe Discharge:	None	0																																															
Water Odor:	Normal	0																																															
Fish Passage Barrier:	None	0																																															
RB: Riparian Buffer:	100 ft.	0																																															
LB: Riparian Buffer:	40 ft.	0.5																																															
RB: Floodplain Access:	Full	0																																															
LB: Floodplain Access:	Partial	0.25																																															
Severity Scale:		3.75																																															
			<b>Additional Site Features</b>																																														
			Stream Channel Woody Material: Dominating																																														
			Impoundments: None																																														
			Substrate Composition: Medium Sand																																														
			Bank Material: Sandy Clay																																														
			Near Bank Stress: Moderate																																														
			RB Landuse: Natural Forest																																														
			LB Landuse: Natural Forest, Pasture																																														
Notes: 303d: NA																																																	
Restoration Option 1																																																	

# Charlie Creek

Severity Scale: 4.25-Moderate

Watershed: Peace River

Subwatershed: Middle Charlie Creek

Latitude: 27.43511

Longitude: -81.73104

County: Hardee

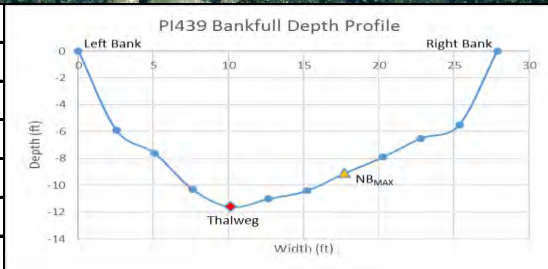
Site Number: PI439

Reach Length: 117 ft.

Landowner: J.A.M. Farms Corporation\*



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Low (19.20)	0
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	80 ft.	0.25
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		4.25






Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy Clay
Near Bank Stress: Low
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest

Notes: 303d: NA; \*Square C Ranch LTD LLP also owns small portion of site

Restoration Option 1



Charlie Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.43353 Longitude: -81.73100			County: Hardee Site Number: PI440 Reach Length: 120 ft. Landowner: J.A.M. Farms Corporation
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (14.47)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	100 ft.	0	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.0</b>	
Notes: 303d: NA			<b>Additional Site Features</b>
			Stream Channel Woody Material: Extensive
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy Clay
			Near Bank Stress: Moderate
			RB Landuse: Natural Forest
			LB Landuse: Natural Forest, Pasture
Restoration Option 1			



# Charlie Creek

Severity Scale: 5.25-Moderate

Watershed: Peace River

Subwatershed: Middle Charlie Creek

Latitude: 27.43338

Longitude: -81.73169

County: Hardee

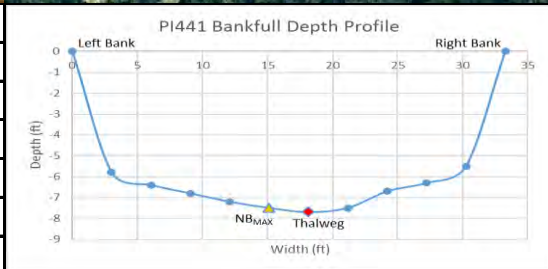
Site Number: PI441

Reach Length: 62 ft.

Landowner: J.A.M. Farms Corporation





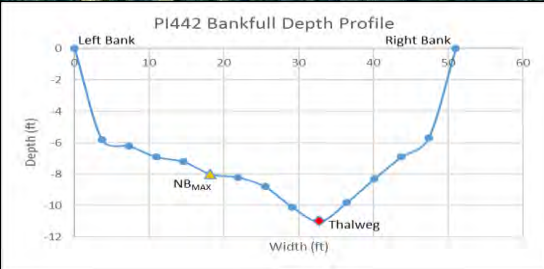
Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Very High (40.89)	1.5
Local NPSP:	Moderate Potential	1
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	80 ft.	0.25
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		5.25



Additional Site Features	
Stream Channel Woody Material:	Infrequent
Impoundments:	None
Substrate Composition:	Medium Sand
Bank Material:	Sand
Near Bank Stress:	Low
RB Landuse:	Natural Forest, Pasture
LB Landuse:	Natural Forest, Pasture

Notes: 303d: NA

Restoration Option 1

Charlie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.43253 Longitude: -81.73128			County: Hardee Site Number: PI442 Reach Length: 135 ft. Landowner: J.A.M. Farms Corporation	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (18.58)	0		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.5	Additional Site Features	
Notes: 303d: NA			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sandy Clay	
			Near Bank Stress: Low	
Restoration Option 1			RB Landuse: Natural Forest, Pasture	
			LB Landuse: Natural Forest, Pasture	



# Charlie Creek

Severity Scale: 4.25-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.42999

Longitude: -81.73531

County: Hardee

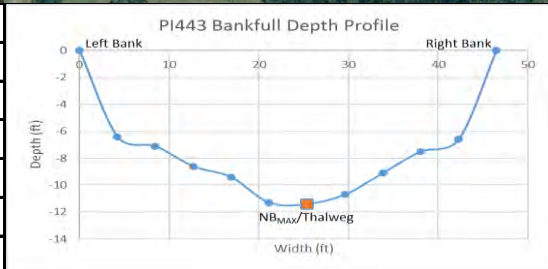
Site Number: PI443

Reach Length: 400 ft.

Landowner: J.A.M. Farms Corporation



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Very High (39.70)	1.5
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
Severity Scale:		4.25



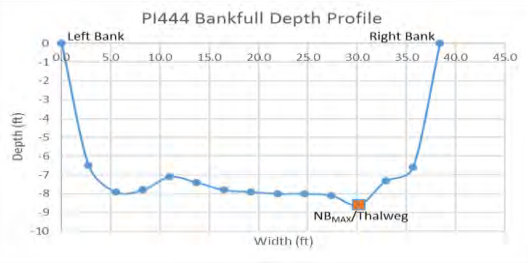


Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Natural Forest
LB Landuse: Natural Forest

Notes: 303d: Impaired - Fecal Coliform

Restoration Option 1



Charlie Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.42789 Longitude: -81.74169			County: Hardee Site Number: PI444 Reach Length: 235 ft. Landowner: J.A.M. Farms Corporation
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (29.67)	1	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.5</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Pasture
Notes: 303d: Impaired - Fecal Coliform			
Restoration Option 1			

# Charlie Creek

Severity Scale: 4.25-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.42693

Longitude: -81.74235

County: Hardee

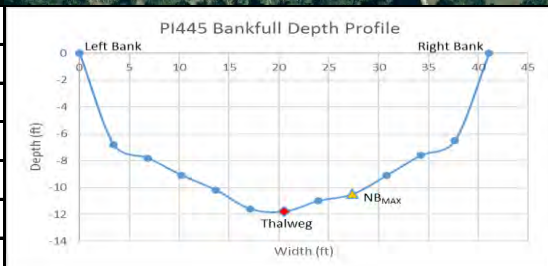
Site Number: PI445

Reach Length: 150 ft.

Landowner: J.A.M. Farms Corporation



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (23.70)	0.5
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>4.25</b>




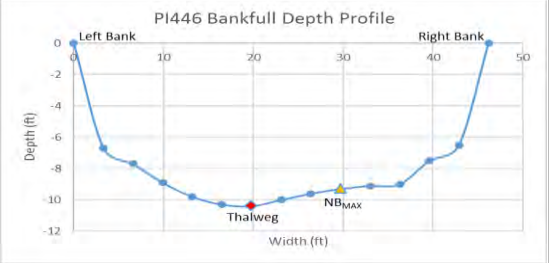
## Additional Site Features

Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy Clay
Near Bank Stress: Moderate
RB Landuse: Natural Forest
LB Landuse: Natural Forest



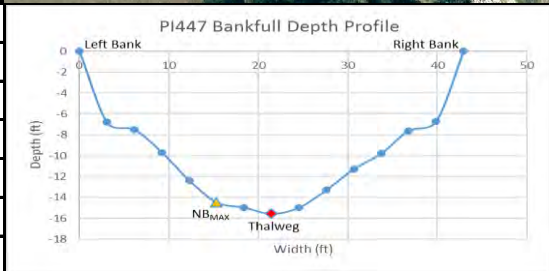
Notes: 303d: Impaired - Fecal Coliform

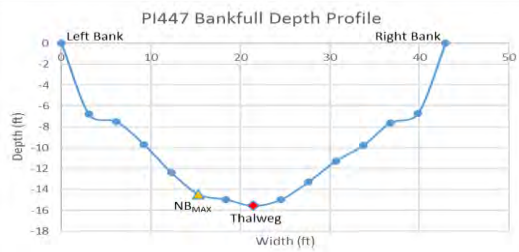
Restoration Option 1



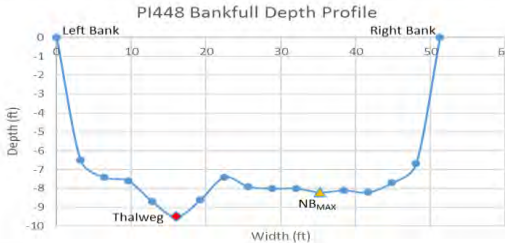


Charlie Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.42537 Longitude: -81.74374			County: Hardee Site Number: PI446 Reach Length: 105 ft. Landowner: J.A.M. Farms Corporation
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Low (17.80)	0	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>4.75</b>	
Notes: 303d: Impaired - Fecal Coliform			<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sandy Clay
			Near Bank Stress: Low
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Natural Forest
Restoration Option 1			



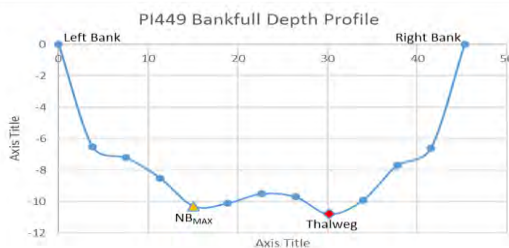


Charlie Creek			Severity Scale: 3.0-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.42270 Longitude: -81.74210			County: Hardee Site Number: PI447 Reach Length: 326 ft. Landowner: J.A.M. Farms Corporation	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (16.96)	0		
Local NPSP:	Moderate Potential	0.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy Clay Near Bank Stress: Moderate RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest	
LB: Riparian Buffer:	60 ft.	0.25		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
<b>Severity Scale:</b>		<b>3.0</b>		
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				



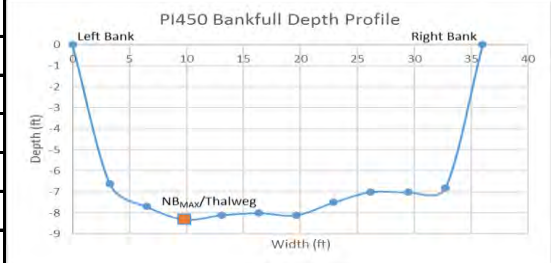




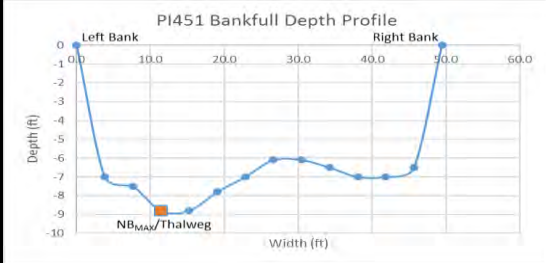
Charlie Creek			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.42119 Longitude: -81.74285			County: Hardee Site Number: PI448 Reach Length: 200 ft. Landowner: Kelly W. James	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate (28.10)	0.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5	<b>Additional Site Features</b> Stream Channel Woody Material: Numerous Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Low RB Landuse: Natural Forest, Pasture LB Landuse: Natural Forest	
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>4.0</b>		
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				





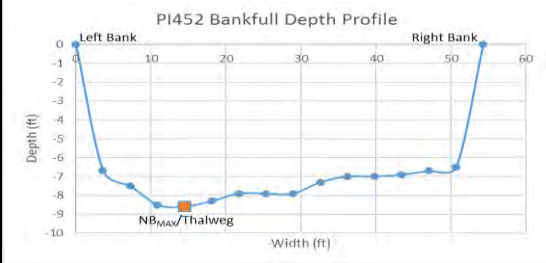
Charlie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.41973 Longitude: -81.74029			County: Hardee Site Number: PI449 Reach Length: 230 ft. Landowner: Southern Sisters Family LTD	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (13.89)	0		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy Clay Near Bank Stress: Low RB Landuse: Natural Forest LB Landuse: Natural Forest, Pasture	
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		3.5		
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				



Charlie Creek			Severity Scale: 4.5-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.41544 Longitude: -81.74217			County: Hardee Site Number: PI450 Reach Length: 380 ft. Landowner: Southern Sisters Family LTD	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Low (17.91)	0		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	0 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		4.5	<b>Additional Site Features</b> Stream Channel Woody Material: Extensive Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy Clay Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Pasture, Natural Forest	
Notes: 303d: Impaired - Fecal Coliform				
Restoration Option 1				

Charlie Creek			Severity Scale: 5.75-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.41380 Longitude: -81.74340			County: Hardee Site Number: PI451 Reach Length: 340 ft. Landowner: Southern Sisters Family LTD	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (31.17)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	40 ft.	0.5		
LB: Riparian Buffer:	20 ft.	0.75		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
Severity Scale:		5.75		
Notes: Cattle fence and wooden bridge across river; 303d: Impaired - Fecal Coliform			Additional Site Features	
			Stream Channel Woody Material: Infrequent	
			Impoundments: None	
			Substrate Composition: Medium Sand	
			Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Pasture, Agriculture, Nat. Forest	
			LB Landuse: Pasture, Nat. Forest, Recreation	
Restoration Option 1				



Charlie Creek			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.41253 Longitude: -81.74377			County: Hardee Site Number: PI452 Reach Length: 325 ft. Landowner: Southern Sisters Family LTD	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (32.03)	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b>	
LB: Riparian Buffer:	0 ft.	0.75	Stream Channel Woody Material: Numerous	
RB: Floodplain Access:	Full	0	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale:		6.0	Bank Material: Sand	
			Near Bank Stress: High	
			RB Landuse: Pasture, Natural Forest	
			LB Landuse: Natural Forest, Pasture	
303d: Impaired - Fecal Coliform				
Restoration Option 1				



# Charlie Creek

Severity Scale: 5.75-Moderate

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.41174

Longitude: -81.74393

County: Hardee

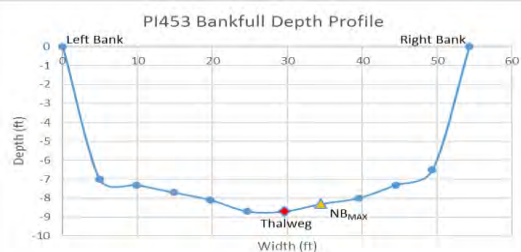
Site Number: PI453

Reach Length: 100 ft.

Landowner: Donna & James H Webb Jr



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (35.77)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>5.75</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand



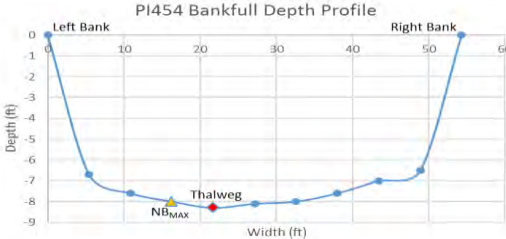
Near Bank Stress: Moderate

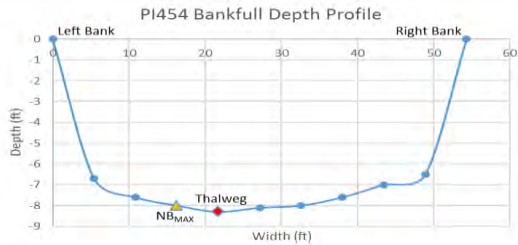
RB Landuse: Natural Forest, Pasture

LB Landuse: Pasture, Natural Forest



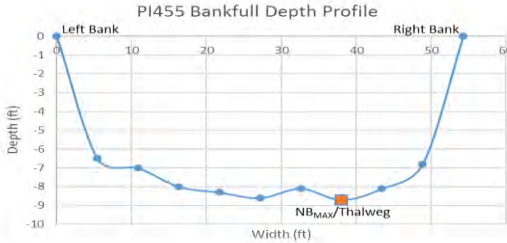
303d: Impaired - Fecal Coliform



Restoration Option 1

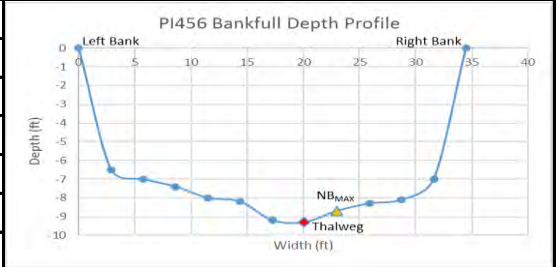
Charlie Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.41069 Longitude: -81.74362			County: Hardee Site Number: PI454 Reach Length: 280 ft. Landowner: Southern Sisters Family LTD
			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (38.52)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b>
LB: Riparian Buffer:	0 ft.	0.75	Stream Channel Woody Material: Infrequent
RB: Floodplain Access:	Full	0	Impoundments: None
LB: Floodplain Access:	Partial	0.25	Substrate Composition: Medium Sand
<b>Severity Scale:</b>			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture
			LB Landuse: Natural Forest, Pasture
303d: Impaired - Fecal Coliform			
Restoration Option 1			





Charlie Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.41122 Longitude: -81.74474			County: Hardee Site Number: PI455 Reach Length: 135 ft. Landowner: Donna & James H Webb Jr
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (36.76)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.0</b>	<b>Additional Site Features</b>
			Stream Channel Woody Material: Infrequent
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: High
			RB Landuse: Natural Forest, Pasture
			LB Landuse: Pasture
303d: Impaired - Fecal Coliform			
Restoration Option 1			

Charlie Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.41040 Longitude: -81.74588			County: Hardee Site Number: PI456 Reach Length: 155 ft. Landowner: Donna & James H Webb Jr
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (39.27)	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	20 ft.	0.75	
LB: Riparian Buffer:	0 ft.	0.75	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>6.25</b>	
303d: Impaired - Fecal Coliform			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy Clay
Near Bank Stress: Moderate
RB Landuse: Pasture, Natural Forest
LB Landuse: Pasture



# Charlie Creek

Severity Scale: 4.0-Low

Watershed: Peace River

Subwatershed: Middle Charlie Creek

Latitude: 27.45489

Longitude: -81.68587

County: Hardee

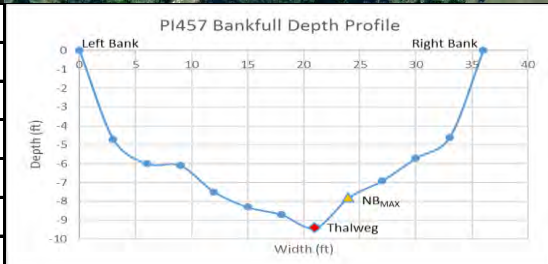
Site Number: PI457

Reach Length: 210 ft.

Landowner: Septem Land Development



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Fair	1
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Low (12.60)	0
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		4.0



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Clay



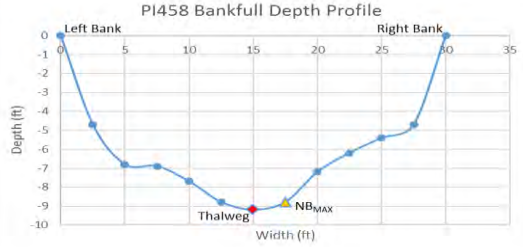
Near Bank Stress: Moderate

RB Landuse: Pasture, Natural Forest



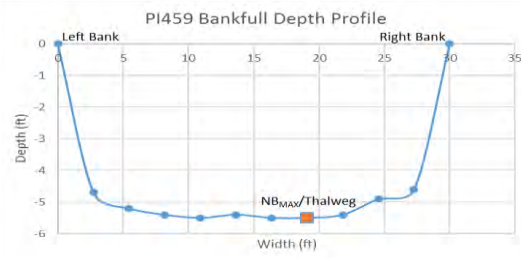
LB Landuse: Natural Forest



Notes: 303d: NA

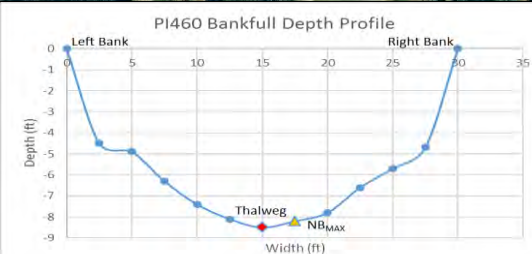
Restoration Option 1

Charlie Creek			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.45229 Longitude: -81.68897			County: Hardee Site Number: PI458 Reach Length: 125 ft. Landowner: Robertson Farms LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (28.36)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>4.5</b>	
Notes: 303d: NA			<b>Additional Site Features</b>
			Stream Channel Woody Material: Moderate
			Impoundments: None
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Moderate
			RB Landuse: Pasture, Natural Forest
			LB Landuse: Natural Forest
Restoration Option 1			





Charlie Creek			Severity Scale: 5.0-Moderate			
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.45139 Longitude: -81.69266			County: Hardee Site Number: PI459 Reach Length: 150 ft. Landowner: Robertson Farms LLC			
						
Risk Factor	Ranking	Score				
Pfankuch-Channel Stability:	Fair	1				
Channel Alteration:	None	0				
Bank Erosion:	Active	1				
BEHI:	Moderate (20.88)	0.5				
Local NPSP:	Obvious Sources	1.5				
Shoring Structures:	None	0				
Pipe Discharge:	None	0				
Water Odor:	Normal	0				
Fish Passage Barrier:	None	0				
RB: Riparian Buffer:	0 ft.	0.75	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sandy Clay Near Bank Stress: Moderate RB Landuse: Pasture, Natural Forest LB Landuse: Natural Forest, Pasture			
LB: Riparian Buffer:	60 ft.	0.25				
RB: Floodplain Access:	Full	0				
LB: Floodplain Access:	Full	0				
<b>Severity Scale:</b>		<b>5.0</b>				
Notes: 303d: NA						
Restoration Option 1						



Charlie Creek			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.45141 Longitude: -81.69399			County: Hardee Site Number: PI460 Reach Length: 81 ft. Landowner: Robertson Farms LLC
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate (25.84)	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	40 ft.	0.5	
RB: Floodplain Access:	Partial	0.25	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>5.25</b>	
Notes: 303d: NA			
Restoration Option 1			





Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sandy Clay
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Pasture
LB Landuse: Natural Forest, Pasture





Charlie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 28.44074 Longitude: -81.72218			County: Hardee Site Number: PI461 Reach Length: 210 ft. Landowner: D H Ranch Inc.	
				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: NR
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	60 ft	0.25		Substrate Composition: Medium Sand
LB: Riparian Buffer:	80 ft.	0.25		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: NR
LB: Floodplain Access:	Full	0		RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>3.5</b>	LB Landuse: Natural Forest, Pasture	
Notes: BEHI estimated; 303d: NA				
Restoration Option 1				



Charlie Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.4411 Longitude: -81.72198			County: Hardee Site Number: PI462 Reach Length: 82 ft. Landowner: D H Ranch Inc.
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: NR
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	60 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: NR
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.25</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.440708 Longitude: -81.720396			County: Hardee Site Number: PI463 Reach Length: 99 ft. Landowner: D H Ranch Inc.
			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: NR
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: NR
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
Severity Scale:		3.0	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 3.5-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44143 Longitude: -81.71952			County: Hardee Site Number: PI464 Reach Length: 120 ft. Landowner: D H Ranch Inc.	
				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: NR
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	100 ft.	0		Substrate Composition: Medium Sand
LB: Riparian Buffer:	60 ft.	0.25		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: NR
LB: Floodplain Access:	Partial	0.25		RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.5</b>	LB Landuse: Natural Forest	
Notes: BEHI estimated; 303d: NA				
Restoration Option 1				





Charlie Creek			Severity Scale: 4.0-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44155 Longitude: -81.71948			County: Hardee Site Number: PI465 Reach Length: 73 ft. Landowner: D H Ranch Inc.	
 				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High	1.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: NR
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5		Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: NR
LB: Floodplain Access:	Full	0		RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>4.0</b>		LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA				
Restoration Option 1				



Charlie Creek			Severity Scale: 3.75-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.4416 Longitude: -81.71902			County: Hardee Site Number: PI466 Reach Length: 168 ft. Landowner: D H Ranch Inc.	
 				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High	1.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: NR
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	100 ft.	0		Substrate Composition: Medium Sand
LB: Riparian Buffer:	80 ft.	0.25		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: NR
LB: Floodplain Access:	Full	0		RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.75</b>	LB Landuse: Natural Forest, Pasture	
Notes: BEHI estimated; 303d: NA				
Restoration Option 1				





Charlie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.440969 Longitude: -81.718062			County: Hardee Site Number: PI467 Reach Length: 340 ft. Landowner: D H Ranch Inc.
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: NR
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: NR
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.0</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44158 Longitude: -81.71671			County: Hardee Site Number: PI468 Reach Length: 71 ft. Landowner: D H Ranch Inc.
			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Moderate Impoundments: None Substrate Composition: Sand Bank Material: Sand Near Bank Stress: High RB Landuse: Natural Forest LB Landuse: Natural Forest
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
<b>Severity Scale:</b>		<b>3.5</b>	
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44021 Longitude: -81.71519			County: Hardee Site Number: PI469 Reach Length: 224 ft. Landowner: D H Ranch Inc.
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	60 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.5</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44075 Longitude: -81.7145			County: Hardee Site Number: PI470 Reach Length: 148 ft. Landowner: D H Ranch Inc.
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	60 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.25</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 2.5-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44216 Longitude: -81.71436			County: Hardee Site Number: PI471 Reach Length: 181 ft. Landowner: D H Ranch Inc.*
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Clay
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>2.5</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA; *Site also located on property owned by Square D Ranch LTD LLP			
Restoration Option 1			



Charlie Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44189 Longitude: -81.71315			County: Hardee Site Number: PI472 Reach Length: 68 ft. Landowner: D H Ranch Inc.
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High	1.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	60 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Very High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>4.25</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 3.5-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44227 Longitude: -81.71284			County: Hardee Site Number: PI473 Reach Length: 78 ft. Landowner: D H Ranch Inc.
			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.5</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44152 Longitude: -81.71283			County: Hardee Site Number: PI474 Reach Length: 71 ft. Landowner: D H Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.0</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.4417 Longitude: -81.71179			County: Hardee Site Number: PI475 Reach Length: 180 ft. Landowner: D H Ranch Inc.
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sandy-clay
RB: Floodplain Access:	Partial	0.5	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.0</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44019 Longitude: 27.44019			County: Hardee Site Number: PI476 Reach Length: 95 ft. Landowner: D H Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Low
LB: Floodplain Access:	Partial	0.5	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.0</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 3.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: -81.70635 Longitude: 27.44069			County: Hardee Site Number: PI477 Reach Length: 77 ft. Landowner: D H Ranch Inc.
			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Partial	0.5	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.0</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 3.0-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: -81.7054 Longitude: 27.44154			County: Hardee Site Number: PI478 Reach Length: 69 ft. Landowner: D H Ranch Inc.	
				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate	0.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	100 ft.	0		Substrate Composition: Sand
LB: Riparian Buffer:	100 ft.	0		Bank Material: Sand
RB: Floodplain Access:	Partial	0.5		Near Bank Stress: High
LB: Floodplain Access:	Full	0		RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.0</b>	LB Landuse: Natural Forest	
Notes: BEHI estimated; 303d: NA				
Restoration Option 1				





Charlie Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44139 Longitude: -81.70535			County: Hardee Site Number: PI479 Reach Length: 115 ft. Landowner: D H Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.25</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 3.25-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44092 Longitude: -81.70472			County: Hardee Site Number: PI480 Reach Length: 210 ft. Landowner: D H Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Dominating
Fish Passage Barrier:	None	0	Impoundments: Woody Material Jams
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.25</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 2.75-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44104 Longitude: -81.70436			County: Hardee Site Number: PI481 Reach Length: 125 ft. Landowner: D H Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sandy Clay
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>2.75</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 4.0-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44238 Longitude: -81.70411			County: Hardee Site Number: PI482 Reach Length: 80 ft. Landowner: D H Ranch Inc.*
			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High	1	
Local NPSP:	No Evidence	0	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: Woody Material Jams
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>4.0</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA; *Site also located on property owned by Grass Valley Ranch Inc., fence across river			
Restoration Option 1			





Charlie Creek			Severity Scale: 5.25-Moderate	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44283 Longitude: -81.70413			County: Hardee Site Number: PI483 Reach Length: 100 ft. Landowner: Grass Valley Ranch Inc.	
				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High	1.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0		Impoundments: Woody Material Jams
RB: Riparian Buffer:	0 ft.	0.75		Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Pasture, Natural Forest	
<b>Severity Scale:</b>		<b>5.25</b>	LB Landuse: Natural Forest	
Notes: BEHI estimated; 303d: NA				
Restoration Option 1				



Charlie Creek			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44250 Longitude: -81.70283			County: Hardee Site Number: PI484 Reach Length: 75 ft. Landowner: Grass Valley Ranch Inc.
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	60 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest, Recreational
<b>Severity Scale:</b>		<b>5.0</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44257 Longitude: -81.70235			County: Hardee Site Number: PI485 Reach Length: 160 ft. Landowner: Grass Valley Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Moderate Potential	1	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sandy Clay
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>4.25</b>	LB Landuse: Natural Forest, Recreation
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44462 Longitude: -81.70151			County: Hardee Site Number: PI486 Reach Length: 335 ft. Landowner: Grass Valley Ranch Inc.
			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	60 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>4.75</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 4.75-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44451 Longitude: -81.70042			County: Hardee Site Number: PI487 Reach Length: 63 ft. Landowner: Grass Valley Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	60 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>4.75</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44582 Longitude: -81.69868			County: Hardee Site Number: PI488 Reach Length: 135 ft. Landowner: Guy A. Willard (trustee)
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sandy Clay
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>4.25</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 5.0-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44701 Longitude: -81.69861			County: Hardee Site Number: PI489 Reach Length: 110 ft. Landowner: Grass Valley Ranch Inc.
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>5.0</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44696 Longitude: -81.69723			County: Hardee Site Number: PI490 Reach Length: 125 ft. Landowner: Guy A. Willard (trustee)
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>5.5</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44720 Longitude: -81.69710			County: Hardee Site Number: PI491 Reach Length: 100 ft. Landowner: Guy A. Willard (trustee)
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	60 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>4.25</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 4.25-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44785 Longitude: -81.69567			County: Hardee Site Number: PI492 Reach Length: 130 ft. Landowner: Guy A. Willard (trustee)
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	60 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sandy Clay
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
<b>Severity Scale: 4.25</b>			LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44851 Longitude: -81.69332			County: Hardee Site Number: PI493 Reach Length: 100 ft. Landowner: Susan L. Alley & Others
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Pasture
<b>Severity Scale:</b>		<b>5.25</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			



Charlie Creek			Severity Scale: 4.5-Moderate
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44933 Longitude: -81.69396			County: Hardee Site Number: PI494 Reach Length: 95 ft. Landowner: Susan L. Alley & Others
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Fair	1	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>4.5</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: NA			
Restoration Option 1			





Charlie Creek			Severity Scale: 4.25-Moderate	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.44981 Longitude: -81.69440			County: Hardee Site Number: PI495 Reach Length: 190 ft. Landowner: Susan L. Alley & Others	
 				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Fair	1		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Moderate	0.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	100 ft.	0		Substrate Composition: Medium Sand
LB: Riparian Buffer:	60 ft.	0.25		Bank Material: Sandy Clay
RB: Floodplain Access:	Full	0		Near Bank Stress: High
LB: Floodplain Access:	Full	0		RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>4.25</b>	LB Landuse: Natural Forest, Pasture	
Notes: BEHI estimated; 303d: NA				
Restoration Option 1				



Horse Creek			Severity Scale: 7.0-Moderate	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20001 Longitude: -81.98771			County: Desoto Site Number: PI496 Reach Length: 50 ft. Landowner: V C Hollingsworth SR	
				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High	1.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75		Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5		Bank Material: Sand
RB: Floodplain Access:	Partial	0.25		Near Bank Stress: High
LB: Floodplain Access:	Full	0		RB Landuse: Pasture
<b>Severity Scale:</b>		<b>7.0</b>	LB Landuse: Natural Forest, Pasture	
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)				
Restoration Option 1				





Horse Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20071 Longitude: -81.98651			County: Desoto Site Number: PI497 Reach Length: 150 ft. Landowner: V C Hollingsworth SR
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>6.25</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			



Horse Creek			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20278 Longitude: -81.98621			County: Desoto Site Number: PI498 Reach Length: 60 ft. Landowner: V C Hollingsworth SR
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	60 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	80 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>5.25</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			





Horse Creek			Severity Scale: 7.25-Moderate	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20480 Longitude: -81.98696			County: Desoto Site Number: PI499 Reach Length: 40 ft. Landowner: V C Hollingsworth SR	
 				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	Very High	1.5		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75		Substrate Composition: Medium Sand
LB: Riparian Buffer:	0 ft.	0.75		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: Low
LB: Floodplain Access:	Partial	0.25		RB Landuse: Pasture
<b>Severity Scale:</b>		<b>7.25</b>	LB Landuse: Pasture, Natural Forest	
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)				
Restoration Option 1				



Horse Creek			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20547 Longitude: -81.98715			County: Desoto Site Number: PI500 Reach Length: 70 ft. Landowner: V C Hollingsworth SR
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	80 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	20 ft.	0.75	Bank Material: Medium Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>5.75</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			





Horse Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20667 Longitude: -81.98714			County: Desoto Site Number: PI501 Reach Length: 250 ft. Landowner: V C Hollingsworth
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	60 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Partial	0.25	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>6.0</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			



Horse Creek			Severity Scale: 6.75-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20741 Longitude: -81.98699			County: Desoto Site Number: PI502 Reach Length: 150 ft. Landowner: V C Hollingsworth
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	60 ft.	0.25	Bank Material: Sand
RB: Floodplain Access:	Partial	0.25	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>6.75</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			





Horse Creek			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20830 Longitude: -81.98616			County: Desoto Site Number: PI503 Reach Length: 140 ft. Landowner: V C Hollingsworth
			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	60 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	0 ft.	0.75	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
Severity Scale:		7.0	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			



Horse Creek			Severity Scale: 6.0-Moderate	
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20838 Longitude: -81.98688			County: Desoto Site Number: PI504 Reach Length: 150 ft. Landowner: V C Hollingsworth	
				
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>	
Pfankuch-Channel Stability:	Poor	1.5		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High	1		
Local NPSP:	Obvious Sources	1.5		
Shoring Structures:	None	0	<b>Additional Site Features</b>	
Pipe Discharge:	None	0		
Water Odor:	Normal	0		Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0		Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5		Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5		Bank Material: Sand
RB: Floodplain Access:	Full	0		Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture	
<b>Severity Scale:</b>		<b>6.0</b>	LB Landuse: Natural Forest, Pasture	
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)				
Restoration Option 1				





Horse Creek			Severity Scale: 5.5-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20927 Longitude: -81.98734			County: Desoto Site Number: PI505 Reach Length: 90 ft. Landowner: V C Hollingsworth
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>5.5</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			



Horse Creek			Severity Scale: 5.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20885 Longitude: -81.98814			County: Desoto Site Number: PI506 Reach Length: 70 ft. Landowner: V C Hollingsworth
 			
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	<b>*Depth Profile Not Recorded*</b>
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	<b>Additional Site Features</b>
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	100 ft.	0	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Pasture, Natural Forest
<b>Severity Scale: 5.25</b>			LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			





Horse Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20932 Longitude: -81.98815			County: Desoto Site Number: PI507 Reach Length: 125 ft. Landowner: V C Hollingsworth
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	0 ft.	0.75	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>6.25</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			



Horse Creek			Severity Scale: 7.5-High
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.20876 Longitude: -81.98908			County: Desoto Site Number: PI508 Reach Length: 330 ft. Landowner: V C Hollingsworth
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sandy Clay
RB: Floodplain Access:	Partial	0.25	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Pasture
<b>Severity Scale:</b>		<b>7.5</b>	LB Landuse: Natural Forest, Pasture
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			





Horse Creek			Severity Scale: 5.75-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21037 Longitude: -81.99043			County: Desoto Site Number: PI509 Reach Length: 85 ft. Landowner: V C Hollingsworth
			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	40 ft.	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:	20 ft.	0.75	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
Severity Scale:		5.75	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			



Horse Creek			Severity Scale: 7.5-High
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21068 Longitude: -81.99171			County: Desoto Site Number: PI510 Reach Length: 135 ft. Landowner: V C Hollingsworth
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Partial	0.25	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Pasture
<b>Severity Scale:</b>		<b>7.5</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			





Horse Creek			Severity Scale: 6.0-Moderate
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.21068 Longitude: -81.99171			County: Desoto Site Number: PI511 Reach Length: 85 ft. Landowner: V C Hollingsworth
			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Extensive
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	80 ft.	0.25	Substrate Composition: Medium Sand
LB: Riparian Buffer:	20 ft.	0.75	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest, Pasture
<b>Severity Scale:</b>		<b>6.0</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			



Horse Creek			Severity Scale: 6.25-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21337 Longitude: -81.99566			County: Desoto Site Number: PI512 Reach Length: 75 ft. Landowner: V C Hollingsworth
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High	1	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	0 ft.	0.75	Substrate Composition: Medium Sand
LB: Riparian Buffer:	40 ft.	0.5	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Moderate
LB: Floodplain Access:	Full	0	RB Landuse: Pasture
<b>Severity Scale:</b>		<b>6.25</b>	LB Landuse: Pasture, Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			






Horse Creek			Severity Scale: 7.0-Moderate
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.21422 Longitude: -81.99580			County: Desoto Site Number: PI513 Reach Length: 180 ft. Landowner: V C Hollingsworth
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Poor	1.5	
Channel Alteration:	None	0	
Bank Erosion:	Mass-wasting	1.5	
BEHI:	Very High	1.5	
Local NPSP:	Obvious Sources	1.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Numerous
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	20 ft.	0.75	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: High
LB: Floodplain Access:	Partial	0.25	RB Landuse: Pasture, Natural Forest
<b>Severity Scale:</b>		<b>7.0</b>	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: Impaired - Potable Water Supplies (BOD, DO)			
Restoration Option 1			

Joshua Creek			Severity Scale: 3.75-Low
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.16807 Longitude: -81.88316			County: De Soto Site Number: PI514 Reach Length: 60 ft. Landowner: Golden Ranch Farms LLC
 			
Risk Factor	Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	Moderate	0.5	
Local NPSP:	No Evidence	0	
Shoring Structures:	Present	1.5	
Pipe Discharge:	None	0	Additional Site Features
Water Odor:	Normal	0	Stream Channel Woody Material: Infrequent
Fish Passage Barrier:	None	0	Impoundments: None
RB: Riparian Buffer:	100 ft.	0	Substrate Composition: Medium Sand
LB: Riparian Buffer:	0 ft.	0.75	Bank Material: Sand
RB: Floodplain Access:	Full	0	Near Bank Stress: Very High
LB: Floodplain Access:	Full	0	RB Landuse: Natural Forest
<b>Severity Scale:</b>		<b>3.75</b>	LB Landuse: Utilities
Notes: BEHI estimated; 303d: Impaired - Aquatic Life Harvesting (DO)			
Restoration Option 1			



Joshua Creek			Severity Scale: 2.0-Low	
Watershed: Peace River Subwatershed: Lower Joshua Creek Latitude: 27.167577 Longitude: -81.882168			County: De Soto Site Number: PI515 Reach Length: 80 ft. Landowner: DD & TR Geraci	
				
Risk Factor		Ranking	Score	*Depth Profile Not Recorded*
Pfankuch-Channel Stability:		Good	0	
Channel Alteration:		None	0	
Bank Erosion:		Active	1	
BEHI:		Moderate	0.5	
Local NPSP:		No Evidence	0	
Shoring Structures:		None	0	
Pipe Discharge:		None	0	Additional Site Features
Water Odor:		Normal	0	Stream Channel Woody Material: Moderate
Fish Passage Barrier:		None	0	Impoundments: None
RB: Riparian Buffer:		40 ft	0.5	Substrate Composition: Medium Sand
LB: Riparian Buffer:		100 ft	0	Bank Material: Sand
RB: Floodplain Access:		Full	0	Near Bank Stress: Low
LB: Floodplain Access:		Full	0	RB Landuse: Pasture, Natural Forest
Severity Scale:			2.0	LB Landuse: Natural Forest
Notes: BEHI estimated; 303d: Impaired - Aquatic Life Harvesting (DO)				
Restoration Option 1				

Appendix B. Peace River Watershed unpaved road crossing site summaries.

Gum Swamp Branch			Sediment Risk Index: 52-Low	
Watershed: Peace River Subwatershed: Upper Payne Creek Latitude: 27.601247 Longitude: -81.969113 Road Name: John Gill Rd.			County: Hardee Site Number: PU001 LULC: Cropland, pasture, tree crops & bottomland forest Landowner(s): Ronnie Albritton*	
 <p>Right Approach from Crossing Structure</p>			 <p>Crossing Structure: DS</p>	
Risk Factor	Ranking	Score		
US Channel Morph	E	5		
DS Channel Morph	E	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	< 5°	5		
Crossing fill condition	Vegetated	5		
Inlet/Outlet Condition	Sediment Islands	3		
Potential Eroded Vol.	> 40 c.y.	1		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	≤ 2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Bare Soil	0		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	3	0		
<b>SRI Total:</b>		<b>52</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Bridge Crossing Material: Wood Culvert Outfall Drop: NA Fish Passage Barrier: Not Present Notes: Perched tributary flowing into Gum Swamp Branch from US left bank contributing high amounts of sediment. *Additional land owners: James & Betty Grunholzer.	



## Gum Swamp Branch

Sediment Risk Index: 60-Low

Watershed: Peace River  
Subwatershed: Upper Payne Creek  
Latitude: 27.604750  
Longitude: -81.957291  
Road Name: Hendry Road

County: Hardee  
Site Number: PU002  
LULC: Cropland, pasture, tree crops & bottomland forest  
Landowner(s): Sean & Kathy Murphy\*



Right Approach from Crossing Structure



Crossing Structure: US

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Vegetated	5
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	≤ 21 c.y.	5
Soil K Factor	≤ 0.20	5
Approach Slope Mean	≤ 2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>60</b>



### Additional Site Features

Crossing Type and Quantity: Bridge

Crossing Material: Wood

Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes: \*Additional land owners: Robert & Barbara Hambrick

# West Fork Horse Creek

Sediment Risk Index: 56-Low

Watershed: Peace River  
Subwatershed: West Fork Horse Creek  
Latitude: 27.490762  
Longitude: -82.028557  
Road Name: Owen Roberts Rd.

County: Hardee  
Site Number: PU003  
LULC: Bottomland forest, crops and pastureland & mixed rangeland  
Landowner(s): IMC Phosphates Co.



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	C	5
DS Channel Morph	C	5
DS Bank Alteration	Minor or Partial	3
Upstream Skew Angle	< 5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤ 0.20	5
Approach Slope Mean	≤ 2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
SRI Total:		56



## Additional Site Features

Crossing Type and Quantity: Bridge (1)

Crossing Material: Wood

Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes: Cattle access upstream



## Unnamed Tributary

Sediment Risk Index: 48-Low

Watershed: Peace River  
Subwatershed: Troublesome Creek  
Latitude: 27.511512  
Longitude: -81.863388  
Road Name: Ander Marsh Rd.

County: Hardee  
Site Number: PU004  
LULC: Cropland, pastureland, low density residential & bottomland forest  
Landowner(s): David & Jane Durando\*

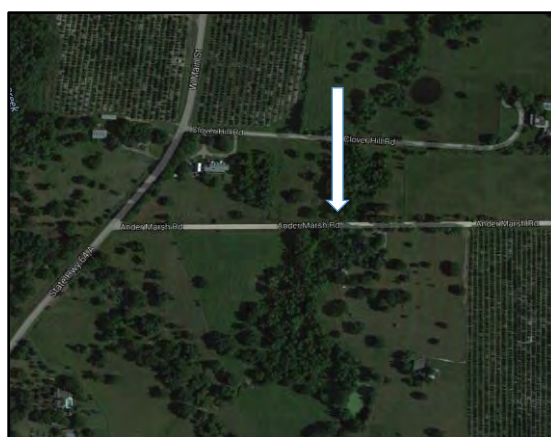


Crossing Structure: DS



DS Channel from Crossing

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	High	1
Upstream Skew Angle	<5°	5
Crossing fill condition	Fair/riprap	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	2.1% - 4.0%	3
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Riprap	1
Downstream Lt Outlet	Other	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	3	0
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>48</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (2)  
Crossing Material: Cor. metal & concrete  
Culvert Outfall Drop: 3 in.  
Fish Passage Barrier: Present  
Notes: Fish passage barrier caused by drop off from concrete pad; incised stream; cattle access, fencing DS. \*Additional land owners: B Carlton, K & D Oden

# Troublesome Creek

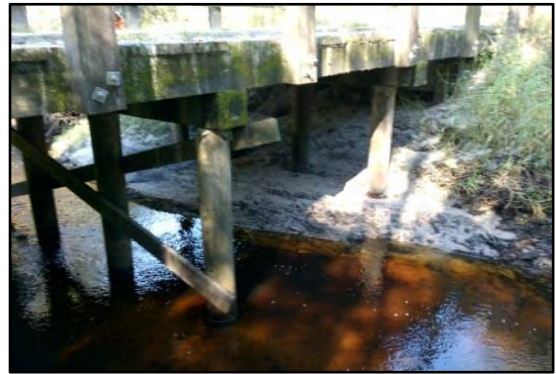
Sediment Risk Index: 42-Moderate

Watershed: Peace River  
Subwatershed: Troublesome Creek  
Latitude: 27.512026  
Longitude: -81.871501  
Road Name: Alton Carleton Rd.

County: Hardee  
Site Number: PU005  
LULC: Tree crops, other open land & low density residential  
Landowner(s): ML & Carolyn Coker\*

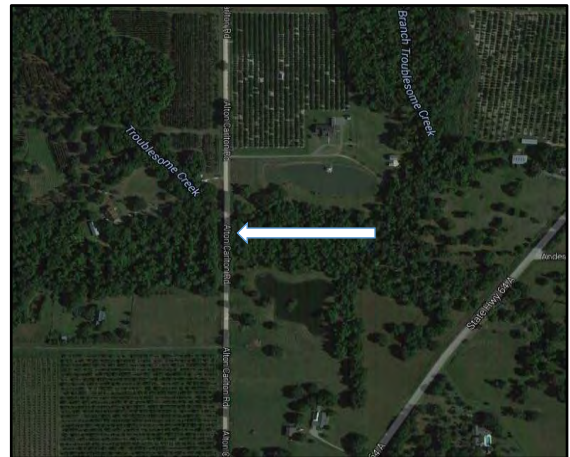


Left Approach from Crossing Structure



Crossing Structure: US

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	C	5
DS Bank Alteration	High	1
Upstream Skew Angle	< 5°	5
Crossing fill condition	Fair	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤ 0.20	5
Approach Slope Mean	≤ 2.0%	5
Road Approach Material	Agg + Native Soil	3
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare Soil	0
Upstream Lt Ditch	Bare Soil	0
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Bare Soil	0
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	2	1
Improved Ditches Total	1	2
SRI Total:		42



## Additional Site Features

Crossing Type and Quantity: Bridge

Crossing Material: Wood

Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes: \*Additional land owners: R & D Durrance, J & M Albritton



# Oak Creek

Sediment Risk Index: 47-Low

Watershed: Peace River  
Subwatershed: Lower Oak Creek  
Latitude: 27.405532  
Longitude: -81.681382  
Road Name: George Marsh Rd.

County: Hardee  
Site Number: PU006  
LULC: Pastureland, citrus groves  
Landowner(s): Citra Lee Partnership



Right Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	High	1
Upstream Skew Angle	< 5°	5
Crossing fill condition	Good-Fair	4
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤ 0.20	5
Approach Slope Mean	≤ 2.0%	5
Road Approach Material	Agg + Native Soil	3
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Bare Soil	0
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	2	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>47</b>



## Additional Site Features




Crossing Type and Quantity: Bridge

Crossing Material: Wood




Culvert Outfall Drop: NA




Fish Passage Barrier: Present

Notes: Cattle access, potential fish passage barrier due to downstream fence and associated debris jam build up




Mineral Branch			Sediment Risk Index: 47-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.454056 Longitude: -81.723300 Road Name: Mineral Branch Rd.			County: Hardee Site Number: PU007 LULC: Citrus groves, pastureland Landowner(s): Square D Ranch LTD LLP*	
 <p>Left Approach from Crossing Structure</p>			 <p>DS Channel from Crossing</p>	
Risk Factor	Ranking	Score		
US Channel Morph	D	1		
DS Channel Morph	E	5		
DS Bank Alteration	High	1		
Upstream Skew Angle	< 5°	5		
Crossing fill condition	Good-Fair	4		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	≤ 2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Synthetic	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Bare Soil	0		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	3	0		
Improved Ditches Total	4	1		
SRI Total:		47	Additional Site Features	
			Crossing Type and Quantity: Bridge	
			Crossing Material: Wood	
			Culvert Outfall Drop: NA	
			Fish Passage Barrier: Not Present	
			Notes: *Additional land owners: The Carleton Group LLC, Dixie Belle Groves Partnership	



Old Town Creek			Sediment Risk Index: 56-Low	
Watershed: Peace River Subwatershed: Charlie Creek Headwaters Latitude: 27.6310 Longitude: -81.620490 Road Name: Old Town Creek Rd.			County: Hardee Site Number: PU008 LULC: Natural Forest, Pasture Land Owner(s): Crews Groves Inc, 660 LLC	
 <p>Right Approach from Crossing Structure</p>			 <p>Crossing Structure: US</p>	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>		
US Channel Morph	DA	3		
DS Channel Morph	E	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	< 5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	≤ 2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>56</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (3) Crossing Material: Concrete Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: Paved as of 11/1/2016; Open box culvert	

Unnamed Tributary			Sediment Risk Index: 52-Low	
Watershed: Peace River Subwatershed: Buckhorn Creek Latitude: 27.529672 Longitude: -81.716465 Road Name: Collin Poucher Rd.			County: Hardee Site Number: PU009 LULC: Pastureland, citrus groves Landowner(s): Barlow Family Partnership*	
 <p>Left Approach from Crossing Structure</p>			 <p>Crossing Structure: DS</p>	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	High	1		
Upstream Skew Angle	< 5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	≤ 2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Bare Soil	0		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Bare Soil	0		
Downstream Lt Outlet	Bare Soil	0		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Bare Soil	0		
Improved Outlet Total	1	2		
Improved Ditches Total	3	0		
SRI Total:		52	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: Corrugated metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: Cattle access. *Additional land owners: Durrance & Whidden Properties LLC	



Unnamed Tributary			Sediment Risk Index: 50-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.005428 Longitude: -81.935606 Road Name: Live Oak Blvd.			County: Charlotte Site Number: PU010 LULC: Pasture  Land Owner(s): Zachariah P Zacharia*	
				
Left Approach from Crossing Structure			Crossing Structure: US	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	Ponded	1		
DS Bank Alteration	Minor/Partial	3		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Fair	3		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		50	Additional Site Features	
			Crossing Type and Quantity: Culvert (1)	
			Crossing Material: Corrugated Metal	
			Culvert Outfall Drop: 0 in.	
			Fish Passage Barrier: Not Present	
			Notes: Culvert is perched at road crossing; *Additional land owners: Zemel Family Ventures LLC, Hudson Hammocks LLC, & JMH-TR	

## Deep Creek Gulch

Sediment Risk Index: 57-Low

Watershed: Peace River  
Subwatershed: Lettuce Lake  
Latitude: 27.059925  
Longitude: -82.008414  
Road Name: Branson Rd

County: Desoto  
Site Number: PU011  
LULC: Natural Forest, Low Density Housing  
Land Owner(s): Juanita & Winfred Gibbs\*



Right Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	C	5
DS Channel Morph	C	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Good	5
Inlet/Outlet Condition	Scouring	4
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>57</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (1)

Crossing Material: Corrugated Metal

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: \*Additional land owners: Jacqueline White, SW Florida Water Management District



## Unnamed Canal/Ditch

Sediment Risk Index: 42-Moderate

Watershed: Peace River  
Subwatershed: Lettuce Lake  
Latitude: 27.089844  
Longitude: -81.007486  
Road Name: Unnamed

County: Desoto  
Site Number: PU012  
LULC: Industrial, mowed grass  
Land Owner(s): PRMRWSA\*



Right Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	Ditch	1
DS Channel Morph	E	5
DS Bank Alteration	High	1
Upstream Skew Angle	>30°	1
Crossing fill condition	Fair, Riprap	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤0.20	5
Approach Slope Mean	<2°	5
Road Approach Material	All aggregate	5
Upstream Rt Outlet	Riprap	1
Upstream Lt Outlet	Riprap	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Riprap	1
Downstream Lt Outlet	Riprap	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
SRI Total:		42



### Additional Site Features




Crossing Type and Quantity: Culvert (3)

Crossing Material: Corrugated Metal




Culvert Outfall Drop: 0 in.




Fish Passage Barrier: Not Present

Notes: Discharging from city water supply reservoir.  
Riprap present in stream. \*Peace River Manasota  
Regional Water Supply Authority

Unnamed Tributary			Sediment Risk Index: 51-Low
Watershed: Peace River Subwatershed: Lower Horse Creek Latitude: 27.178447 Longitude: -81.974194 Road Name: Horse Creek Rd.			County: Desoto Site Number: PU013 LULC: Natural forest  Land Owner(s): Joshua Rhodes*
 <p>Left Approach from Crossing Structure</p>			 <p>Crossing Structure: US</p>
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	 <p><b>Additional Site Features</b></p> <p>Crossing Type and Quantity: Culvert (3)</p> <p>Crossing Material: Corrugated Metal</p> <p>Culvert Outfall Drop: 0 in.</p> <p>Fish Passage Barrier: Not Present</p> <p>Notes: 1 large, two small culverts. Large culvert in overflow channel, small culverts in main channel.</p> <p>*Additional land owners: Martin Raguth</p>
US Channel Morph	Ponded	1	
DS Channel Morph	E	5	
DS Bank Alteration	Natural	5	
Upstream Skew Angle	5°-30°	3	
Crossing fill condition	Good/Vegetated	5	
Inlet/Outlet Condition	Slight Scouring	4	
Potential Eroded Vol.	< 21 c.y.	5	
Soil K Factor	≤0.20	5	
Approach Slope Mean	<2°	5	
Road Approach Material	All Aggregate	5	
Upstream Rt Outlet	Vegetated	1	
Upstream Lt Outlet	Vegetated	1	
Upstream Rt Ditch	Vegetated	1	
Upstream Lt Ditch	Bare Soil	0	
Downstream Rt Outlet	Vegetated	1	
Downstream Lt Outlet	Vegetated	1	
Downstream Rt Ditch	Vegetated	1	
Downstream Lt Ditch	Vegetated	1	
Improved Outlet Total	4	1	
Improved Ditches Total	3	0	
<b>SRI Total:</b>		<b>51</b>	



Unnamed Tributary			Sediment Risk Index: 54-Low	
Watershed: Peace River Subwatershed: McBride Branch Latitude: 27.314731 Longitude: -81.813592 Road Name: NE Bombay Rd.			County: Desoto Site Number: PU014 LULC: Low density residential, pastureland  Land Owner(s): Stewart Parker*	
 <p>Left Approach from Crossing Structure</p>			 <p>Crossing Structure: DS</p>	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	5°-30°	3		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Bare Soil	0		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	3	0	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (4) Crossing Material: Corr. Metal, Synthetic Culvert Outfall Drop: 2 ft. Fish Passage Barrier: Present Notes: Cement headwall with 2 corrugated metal and 2 synthetic culverts underneath. *Additional land owners: Arcadia Ranch Properties LLC	
Improved Ditches Total	4	1		
<b>SRI Total:</b>		54		

Unnamed Tributary			Sediment Risk Index: 46-Low	
Watershed: Peace Subwatershed: Peace River Branch Latitude: 27.347683 Longitude: -81.816406 Road Name: River Rd.			County: Hardee Site Number: PU015 LULC: Pastureland, low density residential  Land Owner(s): Glen Douglas, Judith Shoun	
 <p>Right Approach from Crossing Structure</p>			 <p>Crossing Structure: US</p>	
Risk Factor	Ranking	Score		
US Channel Morph	Channelized	1		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	>30°	1		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Bare Soil	0		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	3	0		
SRI Total:		46	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (2) Crossing Material: Corrugated Metal, Concrete Culvert Outfall Drop: 8 in. Fish Passage Barrier: Present Notes: Culverts rusted, upstream section of stream is a channelized road ditch. Left Approach has a negative slope.	



## Unnamed Tributary

Sediment Risk Index: 48-Low

Watershed: Peace River

Subwatershed: Lower Charlie Creek

Latitude: 27.403067

Longitude: -81.736100

Road Name: Gordon Rd.

County: Hardee

Site Number: PU016

LULC: Pastureland, citrus groves, low density residential

Land Owner(s): Twenty-Twenty Groves\*



Right Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	Ponded	1
DS Bank Alteration	Minor/Partial	3
Upstream Skew Angle	>30°	1
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	<2°	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>48</b>



### Additional Site Features




Crossing Type and Quantity: Culvert

Crossing Material: Could not view

Culvert Outfall Drop: Could not view

Fish Passage Barrier: Could not view

Notes: Road turns into private drive. Fence blocking view of crossing structure. \*Additional land owners: Martha & Thomas Trust Taylor

Unnamed Tributary			Sediment Risk Index: 52-Low
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.465422 Longitude: -81.644203 Road Name: Oak Hill Ranch			County: Hardee Site Number: PU017 LULC: Low density residential  Land Owner(s): Robert Garren*
 <p>Left Approach from Crossing Structure</p>			 <p>Crossing Structure: DS</p>
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	
US Channel Morph	Wetland	5	
DS Channel Morph	Wetland	5	
DS Bank Alteration	Natural	5	
Upstream Skew Angle	<5°	5	
Crossing fill condition	Good/Vegetated	5	
Inlet/Outlet Condition	No Impairment	5	
Potential Eroded Vol.	< 21 c.y.	5	
Soil K Factor	≤2.0	5	
Approach Slope Mean	<2°	5	
Road Approach Material	Native Soil	1	
Upstream Rt Outlet	Vegetated	1	
Upstream Lt Outlet	Vegetated	1	
Upstream Rt Ditch	Bare Soil	0	
Upstream Lt Ditch	Bare Soil	0	
Downstream Rt Outlet	Vegetated	1	
Downstream Lt Outlet	Vegetated	1	
Downstream Rt Ditch	Bare Soil	0	
Downstream Lt Ditch	Bare Soil	0	
Improved Outlet Total	4	1	
Improved Ditches Total	0	1	
<b>SRI Total:</b>		52	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: *Additional land owners: Campus USA Credit Union, Danny & Cathy Meadows



## Unnamed Tributary

Sediment Risk Index: 53-Low

Watershed: Peace River  
Subwatershed: Troublesome Creek  
Latitude: 27.501574  
Longitude: -81.776556  
Road Name: Farrell Rd.

County: Hardee  
Site Number: PU018  
LULC: Pastureland  
Land Owner(s): ALBRITTON R C & V L\*



Right Approach from Crossing Structure



DS Channel from Crossing

Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	Wetland	5
DS Bank Alteration	Natural	4
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Blocked	1
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	0.02	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>53</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (1)

Crossing Material: Corrugated Metal

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: Aquatic vegetation blocking inlet, \*Additional land owners: HERNANDEZ JOSE JOEL & LILIA

## Myrtle Creek

Sediment Risk Index: 54-Low

Watershed: Peace River  
Subwatershed: Middle Shell Creek  
Latitude: 26.963495  
Longitude: -81.911681  
Road Name: Unnamed Road

County: Charlotte  
Site Number: PU019  
LULC: Low density residential  
Land Owner(s): HERTENLEHNER JOEY M\*



Right Approach from Crossing Structure



Crossing Structure: DS




Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Fair/Riprap	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Riprap	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>54</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (4)  
Crossing Material: Corrugated Metal (3), PVC (1)  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: No water flowing in 3 of 4 culverts, \*Additional land owners: SISK JEFFREY & DEANA



Unnamed Tributary			Sediment Risk Index: 48-Low	
Watershed: Peace River Subwatershed: Middle Shell Creek Latitude: 26.979455 Longitude: -81.880742 Road Name: Trails End Dr.			County: Charlotte Site Number: PU020 LULC: Low density residential  Land Owner(s): FORD STEVEN L & PAMELA R	
 <p>Left Approach from Crossing Structure</p>			 <p>Crossing Structure: US</p>	
Risk Factor	Ranking	Score		
US Channel Morph	Ponded	1		
DS Channel Morph	E	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	>30°	1		
Crossing fill condition	Fair	3		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤2.0	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		48	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (2) Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: Slightly pooled at crossing	

## Unnamed Tributary

Sediment Risk Index: 53-Low

Watershed: Peace River  
Subwatershed: Middle Shell Creek  
Latitude: 26.977753  
Longitude: -81.879385  
Road Name: Trails End Dr.

County: Charlotte  
Site Number: PU021  
LULC: Low Density Residential  
Land Owner(s): FORD STEVEN L & PAMELA R



Right Approach from Crossing Structure



Crossing Structure: US

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Minor/Partial	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Fair to Poor	2
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Riprap	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>53</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (2)

Crossing Material: Corrugated Metal

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes:



# Hog Branch

Sediment Risk Index: 52-Low

Watershed: Peace River

Subwatershed: Thompson Branch

Latitude: 27.58005

Longitude: -81.829963

Road Name: Mott Rd.

County: Hardee

Site Number: PU022

LULC: Pastureland, Citrus Groves

Land Owner(s): ESPARZA JOSE\*



Right Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Minor/Partial	3
Upstream Skew Angle	>30°	1
Crossing fill condition	Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
SRI Total:		52



## Additional Site Features




Crossing Type and Quantity: Culvert (3)

Crossing Material: Corrugated Metal




Culvert Outfall Drop: 10 in.




Fish Passage Barrier: Present

Notes: Pasture - no riparian vegetation, \*Additional land owners: HARDEE COUNTY INDUSTRIAL




Unnamed Tributary			Sediment Risk Index: 48-Low	
Watershed: Peace River Subwatershed: Lower Shell Creek Latitude: 26.992303 Longitude: -81.940715 Road Name: Turkey Oak Rd.			County: Charlotte Site Number: PU023 LULC: Low Density Residential Land Owner(s): ZIEGLER BRIAN	
 <p>Left Approach from Crossing Structure</p>			 <p>Crossing Structure: DS</p>	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>		
US Channel Morph	Ponded	1		
DS Channel Morph	Ponded	1		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Fair/Riprap	3		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1	Crossing Type and Quantity: Culvert (2)	
<b>SRI Total:</b> 48			Crossing Material: Concrete	
			Culvert Outfall Drop: 2 ft.	
			Fish Passage Barrier: Present	
			Notes: Riprap barrier downstream of crossing	






Unnamed Tributary			Sediment Risk Index: 58-Low	
Watershed: Peace River Subwatershed: Lower Shell Creek Latitude: 27.005804 Longitude: -81.947147 Road Name: Live Oak Blvd.			County: Charlotte Site Number: PU024 LULC: Pastureland  Land Owner(s): HUDSON HAMMOCKS LLC	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	E	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		58	<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: Corrugated Metal Culvert Outfall Drop: 3 in. Fish Passage Barrier: Present Notes: Stream not flowing; Pasture upstream	




Unnamed Tributary			Sediment Risk Index: 46-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.00534 Longitude: -81.927457 Road Name: Live Oak Blvd			County: Charlotte Site Number: PU025 LULC: Pastureland, wetland  Land Owner(s): HUDSON HAMMOCKS & JMH-TR	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Ponded	1		
DS Channel Morph	Ponded	1		
DS Bank Alteration	Minor	3		
Upstream Skew Angle	5° to 30°	3		
Crossing fill condition	Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>46</b>		
				
			<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: Corrugated Metal Culvert Outfall Drop: 1 in. Fish Passage Barrier: Present Notes: Pasture upstream and downstream	



Unnamed Tributary			Sediment Risk Index: 43-Moderate
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.00497 Longitude: -81.910367 Road Name: Live Oak Rd.			County: Charlotte Site Number: PU026 LULC: Pasture, Low Density Residential Land Owner(s): HUDSON HAMMOCKS & JMH-TR*
 <p>Left Approach from Crossing Structure</p>			 <p>Crossing Structure: DS</p>
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	
US Channel Morph	Ponded	1	
DS Channel Morph	Ponded	1	
DS Bank Alteration	Partial	3	
Upstream Skew Angle	>30°	1	
Crossing fill condition	Vegated/Fair	4	
Inlet/Outlet Condition	Sediment/Scouring	3	
Potential Eroded Vol.	< 21 c.y.	5	
Soil K Factor	≤0.20	5	
Approach Slope Mean	≤2.0%	5	
Road Approach Material	All Aggregate	5	
Upstream Rt Outlet	Vegated	1	
Upstream Lt Outlet	Vegated	1	
Upstream Rt Ditch	Vegated	1	
Upstream Lt Ditch	Vegated	1	
Downstream Rt Outlet	Vegated	1	
Downstream Lt Outlet	Vegated	1	
Downstream Rt Ditch	Vegated	1	
Downstream Lt Ditch	Vegated	1	
Improved Outlet Total	4	1	
Improved Ditches Total	4	1	
<b>SRI Total:</b>		<b>43</b>	<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: Corrugated Metal Culvert Outfall Drop: 1 ft. Fish Passage Barrier: Present Notes: Channelized upstream of crossing; Sharp 90° bend towards culvert; Barb wire fence downstream of culvert, * Additional land owners: PRAIRIE CREEK WEST POA INC

Unnamed Tributary			Sediment Risk Index: 60-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.012643 Longitude: -81.890356 Road Name: Farm Rd.			County: Charlotte Site Number: PU027 LULC: Wetland, Prairie  Land Owner(s): CHARLOTTE COUNTY	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	E	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>60</b>	<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: PVC Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: Prairie Creek Preserve	



Unnamed Tributary			Sediment Risk Index: 60-Low	
Watershed: Peace River Subwatershed: Lower Prairie Creek Latitude: 27.016723 Longitude: -81.887703 Road Name: Farm Rd.			County: Charlotte Site Number: PU028 LULC: Pasture, Prairie  Land Owner(s): CHARLOTTE COUNTY	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	E	5		
DS Channel Morph	E	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>60</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: PVC Culvert Outfall Drop: 0 in. Fish Passage Barrier: Present Notes: Prairie Creek Preserve	

# Hickory Branch

Sediment Risk Index: 49-Low

Watershed: Peace River  
Subwatershed: Troublesome Creek  
Latitude: 27.51681  
Longitude: -81.78054  
Road Name: Gilliard Farm Rd.

County: Hardee  
Site Number: PU029  
LULC: Natural Forest, Low Density Residential  
Land Owner(s): Barnes Sandra L R\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Vegetated/Riprap	4
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Sand/Clay	3
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
SRI Total:		49



## Additional Site Features

Crossing Type and Quantity: Culvert (2)  
Crossing Material: Corrugated Metal  
Culvert Outfall Drop: 1.3 ft.  
Fish Passage Barrier: Present  
Notes: Riprap/concrete blocks downstream of culverts; Lightly used road, grass in middle of road and sides, \*Additional land owners: Voris Leon & Rose E



## Unnamed Tributary

**Sediment Risk Index: 38-Moderate**

Watershed: Peace River

Subwatershed: Myrtle Slough - Shell Creek

Latitude: 27.01831

Longitude: -81.753664

Road Name: Farabeo Rd.

County: Charlotte

Site Number: PU030

LULC: Pasture

Land Owner(s): SPANISH TRAIL LAND & CATTLE CO\*



Right Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	Ponded	1
DS Channel Morph	Ponded	1
DS Bank Alteration	High	1
Upstream Skew Angle	<5°	5
Crossing fill condition	Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare Soil	0
Upstream Lt Ditch	Bare Soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare Soil	0
Downstream Lt Ditch	Bare Soil	0
Improved Outlet Total	4	1
Improved Ditches Total	0	1
<b>SRI Total:</b>		<b>38</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (2)

Crossing Material: Reinforced Concrete

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: Channelized; Cattle access, \*Additional land owners: JLRC REALTY CORP

## Unnamed Tributary

**Sediment Risk Index: 28-High**

Watershed: Peace River  
Subwatershed: Lettuce Lake  
Latitude: 27.055317  
Longitude: -82.01364  
Road Name: SW Erwin St

County: Desoto  
Site Number: PU031  
LULC: Low Density Residential  
Land Owner(s): MEYER MARY OLIVE\*



Right Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	G	1
DS Channel Morph	G	1
DS Bank Alteration	High	1
Upstream Skew Angle	<5°	5
Crossing fill condition	Poor	1
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Native Soil	1
Upstream Rt Outlet	Bare Soil	0
Upstream Lt Outlet	Bare Soil	0
Upstream Rt Ditch	Bare Soil	0
Upstream Lt Ditch	Bare Soil	0
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Bare Soil	0
Improved Outlet Total	0	1
Improved Ditches Total	1	2
<b>SRI Total:</b>		<b>28</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (1)

Crossing Material: PVC

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: Generally unsafe crossing - no guard rail



# Osborn Branch

Sediment Risk Index: 56-Low

Watershed: Peace River

Subwatershed: Middle Horse Creek

Latitude: 27.38206

Longitude: -82.005282

Road Name: Farr Rd

County: Hardee

Site Number: PU032

LULC: Pasture, Prairie

Land Owner(s): VINA JAVIER



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	C	5
DS Bank Alteration	Minor	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Vegetated	5
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>56</b>



## Additional Site Features

Crossing Type and Quantity: Culvert (2)

Crossing Material: PVC

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: \*Additional land owners: QUAIL CREEK FARMS INC

## Unnamed Tributary

Sediment Risk Index: 46-Low

Watershed: Peace River  
Subwatershed: McBride Branch  
Latitude: 27.274418  
Longitude: -81.814208  
Road Name: County Ranches Rd

County: Desoto  
Site Number: PU033  
LULC: Low Density Residential, Citrus Groves  
Land Owner(s): COBBAN WILLIAM FRANKLIN\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	Ponded	1
DS Bank Alteration	Minor	3
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Fair	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	3	0
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>46</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (1)




Crossing Material: Corrugated Metal

Culvert Outfall Drop: 1.2 ft.

Fish Passage Barrier: Present

Notes: Two roads measured on right approach,  
\*Additional land owners: CONNER RONNIE ESTATE



Unnamed Tributary			Sediment Risk Index: 50-Low	
Watershed: Peace River Subwatershed: Fish Branch Latitude: 27.357052 Longitude: -81.727610 Road Name: Fish Branch Rd.			County: Hardee Site Number: PU034 LULC: Natural Forest, Pasture, Citrus Groves Land Owner(s): WILBURN CARL M & BETTY*	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	E	5		
DS Channel Morph	Ponded	1		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	> 40 c.y.	1		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		50	Additional Site Features	
			Crossing Type and Quantity: Bridge (1)	
			Crossing Material: Wood	
			Culvert Outfall Drop: NA	
			Fish Passage Barrier: Not Present	
			Notes: *Additional land owners: MERCER WILLIAM PAT TRUSTEE	

## Unnamed Tributary

Sediment Risk Index: 38-Moderate

Watershed: Peace River  
Subwatershed: Fish Branch  
Latitude: 27.347928  
Longitude: -81.731616  
Road Name: Price Rd.

County: Hardee  
Site Number: PU035  
LULC: Pasture, Citrus Groves, Natural Forest  
Land Owner(s): WILBURN CARL M & BETTY



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	High	1
Upstream Skew Angle	>30°	1
Crossing fill condition	Vegetated	5
Inlet/Outlet Condition	Blocked	1
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Native Soil	1
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Bare Soil	0
Downstream Lt Ditch	Bare Soil	0
Improved Outlet Total	4	1
Improved Ditches Total	2	1
<b>SRI Total:</b>		<b>38</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (4)

Crossing Material: Corrugated Metal/Concrete

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: Cattle crossing downstream of crossing; 3/4 culverts blocked by sand; Barb wire fence full of debris upstream and downstream of crossing



## Unnamed Tributary

Sediment Risk Index: 46-Low

Watershed: Peace River  
Subwatershed: Upper Oak Creek  
Latitude: 27.34072  
Longitude: -81.622426  
Road Name: Ten Mile Grade Rd

County: Hardee/Desoto  
Site Number: PU036  
LULC: Pasture, wetland  
Land Owner(s): SKIPPER CATTLE & CITRUS



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	E	5
DS Bank Alteration	Minor	3
Upstream Skew Angle	>30°	1
Crossing fill condition	Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	2	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>46</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (2)  
Crossing Material: PVC/Concrete  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: Pasture upstream and downstream

## Fish Branch

**Sediment Risk Index: 44-Moderate**

Watershed: Peace River  
Subwatershed: Fish Branch  
Latitude: 27.368787  
Longitude: -81.709092  
Road Name: Fish Branch Rd.

County: Hardee  
Site Number: PU037  
LULC: Natural Forest, Pasture  
Land Owner(s): WELLS LAWRENCE B & CYNTHIA L



Left Approach from Crossing Structure



Crossing Structure: DS




Risk Factor	Ranking	Score
US Channel Morph	Ponded	1
DS Channel Morph	Ponded	1
DS Bank Alteration	Natural	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare Soil	0
Upstream Lt Ditch	Bare Soil	0
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	2	1
<b>SRI Total:</b>		<b>44</b>





### Additional Site Features




Crossing Type and Quantity: Culvert (1)  
Crossing Material: Corrugated Metal/Concrete  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: Deep ponds on both sides of crossing





Unnamed Tributary			Sediment Risk Index: 58-Low	
Watershed: Peace River Subwatershed: Lower Charlie Creek Latitude: 27.406414 Longitude: -81.755684 Road Name: Paulsen Dr.			County: Hardee Site Number: PU038 LULC: Citrus groves, Pasture, Natural Forest Land Owner(s): TWENTY-TWENTY GROVES*	
				
Left Approach from Crossing Structure			DS from crossing structure	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	Sandy Aggregate	3		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>58</b>		
				
			<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: PVC Culvert Outfall Drop: Unsure - see note Fish Passage Barrier: Unsure - see note Notes: Difficult to see inlet/outlet - fenced out, *Additional land owners: WHITE MARSH LLC	

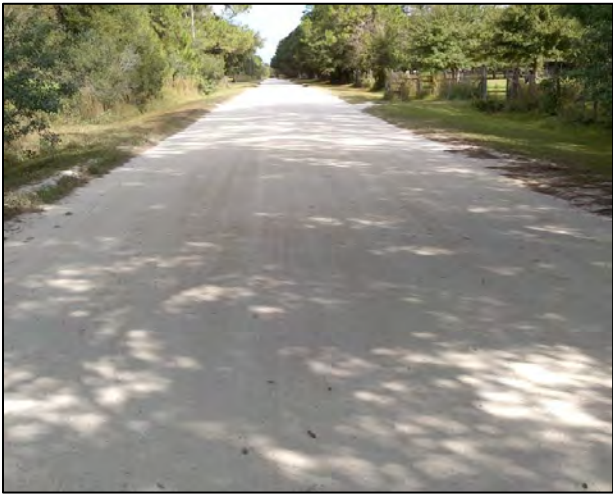

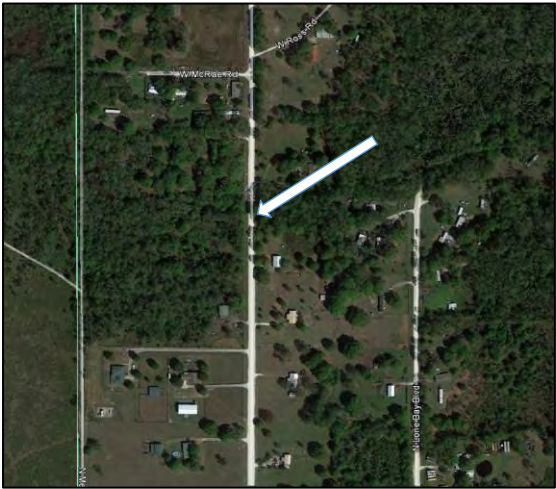
Unnamed Tributary			Sediment Risk Index: 52-Low	
Watershed: Peace River Subwatershed: Lake Garfield Latitude: 27.846418 Longitude: -81.72773 Road Name: Barush Rd.			County: Polk Site Number: PU039 LULC: Pasture, Citrus groves Land Owner(s): CREWS PHILIP F*	
				
Left Approach from Crossing Structure			DS from crossing structure	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Minor	3		
Upstream Skew Angle	5° to 30°	3		
Crossing fill condition	Fair	3		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		52	Additional Site Features	
			Crossing Type and Quantity: Culvert (2)	
			Crossing Material: Corrugated Metal	
			Culvert Outfall Drop: 0 in.	
			Fish Passage Barrier: Not Present	
			Notes: Crossing structure blocked by barb wire upstream and downstream; Channel alteration - cattle prints in stream, no riparian in areas/bank erosion,	
			*Additional land owner: CREWS SANDRA	



Unnamed Tributary			Sediment Risk Index: 50-Low	
Watershed: Peace River Subwatershed: Charlie Creek Headwaters Latitude: 27.617569 Longitude: -81.617688 Road Name: Mel Smith Rd.			County: Hardee Site Number: PU040 LULC: Pasture, Citrus groves, Natural Forest Land Owner(s): CREWS GROVES INC*	
				
Left Approach from Crossing Structure			DS from crossing structure	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	High	1		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	> 40 c.y.	1		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1	Notes: Cattle degrading banks; Tree branches blocking inlet, *Additional land owners: DE LA CRUZ PABLO MOLINA	
SRI Total:		50		

Unnamed Tributary			Sediment Risk Index: 60-Low	
Watershed: Peace River Subwatershed: Bee Branch - Charlie Creek Latitude: 27.603008 Longitude: -81.56140 Road Name: N Ruth Rd.			County: Highlands Site Number: PU041 LULC: Low Density Residential, Natural Forest  Land Owner(s): DOT	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>60</b>		
				
			<b>Additional Site Features</b>	
			Crossing Type and Quantity: Culvert (1)	
			Crossing Material: Corrugated Metal	
			Culvert Outfall Drop: 0 in.	
			Fish Passage Barrier: Not Present	
			Notes:	



Unnamed Tributary			Sediment Risk Index: 52-Low	
Watershed: Peace River Subwatershed: Bee Branch - Charlie Creek Latitude: 27.599101 Longitude: -81.561388 Road Name: N Ruth Rd.			County: Highlands Site Number: PU042 LULC: Low Density Residential, Natural Forest Land Owner(s): IGLESIAS CARIDAD LOPEZ	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	5° to 30°	3		
Crossing fill condition	Fair	3		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Bare Soil	0		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	3	0		
<b>SRI Total:</b>		<b>52</b>		
				
			<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: Crossing fill not well vegetated	

## Unnamed Tributary

Sediment Risk Index: 44-Moderate

Watershed: Peace River  
Subwatershed: Little Charlie Bowlegs  
Latitude: 27.476248  
Longitude: -81.556506  
Road Name: Hammock Rd.

County: Highlands  
Site Number: PU043  
LULC: Cypress Swamp  
Land Owner(s): TIITF REC + PARKS



Left Approach from Crossing Structure



Crossing Structure: DS



Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	>30°	1
Crossing fill condition	Fair	3
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	>0.40	1
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>44</b>






### Additional Site Features

Crossing Type and Quantity: Bridge (1)  
Crossing Material: Wood  
Culvert Outfall Drop: NA  
Fish Passage Barrier: Not Present  
Notes: Highlands Hammock State Park; Retaining walls on all four sides of bridge






Unnamed Tributary			Sediment Risk Index: 54-Low	
Watershed: Peace River Subwatershed: 031001010504 Latitude: 27.470475 Longitude: -81.553801 Road Name: Cottage Rd.			County: Highlands Site Number: PU044 LULC: Cypress Swamp  Land Owner(s): TIITF REC + PARKS	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Riprap	3		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	>0.40	1		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		54		
			<b>Additional Site Features</b> Crossing Type and Quantity: Bridge (1) Crossing Material: Wood Culvert Outfall Drop: NA Fish Passage Barrier: Not Present Notes: Two culverts on right approach	



Unnamed Tributary			Sediment Risk Index: 56-Low	
Watershed: Peace River Subwatershed: Middle Charlie Creek Latitude: 27.462676 Longitude: -81.65670 Road Name: Davis Ranch Rd.			County: Hardee Site Number: PU045 LULC: Pasture, Natural Forest Land Owner(s): WIDENER LACY ALLEN*	
				
Left Approach from Crossing Structure			DS from crossing structure	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	Minor	3		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1	Additional Site Features	
Improved Ditches Total	4	1	Crossing Type and Quantity: Culvert (1)	
SRI Total: 56			Crossing Material: Corrugated Metal	
			Culvert Outfall Drop: 0 in.	
			Fish Passage Barrier: Not Present	
			Notes: Stream not flowing at survey; Cattle in streambed, *Additional land owners: WARNIMONT NANCY L AS TRUSTEE	



Unnamed Tributary			Sediment Risk Index: 53-Low	
Watershed: Peace River Subwatershed: Thompson Branch Latitude: 27.522206 Longitude: -81.746444 Road Name: Mel Bryan Rd.			County: Hardee Site Number: PU046 LULC: Pasture, Citrus Groves, Natural Forest, Wetland Land Owner(s): GARZA MARTHA H*	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Ponded	1		
DS Bank Alteration	Minor	3		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Vegetated/Fair	4		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert (1) Crossing Material: PVC Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: *Additional land owners: PETTEWAY ROY L & WENDY J	
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>53</b>		

## Unnamed Tributary

**Sediment Risk Index: 36-High**

Watershed: Peace River  
Subwatershed: Limestone Creek  
Latitude: 27.351393  
Longitude: -81.885723  
Road Name: Jim Williams Rd.

County: Hardee  
Site Number: PU047  
LULC: Pasture, Natural Forest  
Land Owner(s): LIMESTONE RANCH LLC



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	C	5
DS Channel Morph	Ponded	1
DS Bank Alteration	High	1
Upstream Skew Angle	>30°	1
Crossing fill condition	Riprap/Bare Soil	2
Inlet/Outlet Condition	Semi-blocked	2
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Bare Soil	0
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	3	0
Improved Ditches Total	3	0
<b>SRI Total:</b>		<b>36</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (2)




Crossing Material: Corrugated Metal

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: Cattle watering hole downstream of crossing, cow patties in stream; Barb wire fence across downstream channel - potential for blockage



Unnamed Tributary			Sediment Risk Index: 58-Low	
Watershed: Peace River Subwatershed: Upper Horse Creek Latitude: 27.466877 Longitude: -82.055458 Road Name: Roy Moore Rd.			County: Hardee/Manatee Site Number: PU048 LULC: Pasture, Natural Forest  Land Owner(s): LONG JOHN AND MADISON	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		58		
				
			<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert (2) Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes:	

## Unnamed Tributary

Sediment Risk Index: 44-Moderate

Watershed: Peace River  
Subwatershed: Buckhorn Creek  
Latitude: 27.529646  
Longitude: -81.72651  
Road Name: Colin Poucher Rd.

County: Hardee  
Site Number: PU049  
LULC: Citrus Groves, Pasture  
Land Owner(s): SKITKA DANNY\*



Left Approach from Crossing Structure



Crossing Structure: DS




Risk Factor	Ranking	Score
US Channel Morph	G	1
DS Channel Morph	G	1
DS Bank Alteration	High	1
Upstream Skew Angle	<5°	5
Crossing fill condition	Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	3	0
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>44</b>






### Additional Site Features

Crossing Type and Quantity: Culvert (3)  
Crossing Material: Corrugated Metal  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: Berm upstream and downstream on pasture and citrus groves, \*Additional land owners: WILBURN CARL M & BETTY A



Buckhorn Creek			Sediment Risk Index: 51-Low	
Watershed: Peace River Subwatershed: Buckhorn Creek Latitude: 27.533873 Longitude: -81.71920 Road Name: S Barlow Rd.			County: Hardee Site Number: PU050 LULC: Pasture, Citrus Groves, Natural Forest Land Owner(s): BARLOW FAMILY PARTNERSHIP*	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	E	5		
DS Channel Morph	E	5		
DS Bank Alteration	High	1		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Vegetated/Fair	4		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		51		
				
			<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert (2) Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: Stream possibly channelized; Stream not flowing at survey, *Additional land owners: BURNETT ROBERT W & RENE GAIL	

Unnamed Tributary			Sediment Risk Index: 42-Moderate	
Watershed: Peace River Subwatershed: Buckhorn Creek Latitude: 27.54436 Longitude: -81.675998 Road Name: Rest Haven Rd.			County: Hardee Site Number: PU051 LULC: Citrus Groves  Land Owner(s): T C PRESCOTT LLC	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	E	5		
DS Channel Morph	E	5		
DS Bank Alteration	High	1		
Upstream Skew Angle	5° to 30°	3		
Crossing fill condition	Riprap	3		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	> 40 c.y.	1		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	Sandy Aggregate	3		
Upstream Rt Outlet	Bare Soil	0		
Upstream Lt Outlet	Bare Soil	0		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Bare Soil	0		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	1	2		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		42		



## Unnamed Tributary

Sediment Risk Index: 44-Moderate

Watershed: Peace River  
Subwatershed: Charlie Creek Headwaters  
Latitude: 27.580922  
Longitude: -81.675373  
Road Name: Van Simmons Rd.

County: Hardee  
Site Number: PU052  
LULC: Natural Forest, Citrus Groves, Pasture  
Land Owner(s): NEECE MELBA\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	G	1
DS Channel Morph	G	1
DS Bank Alteration	Natural	5
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Fair	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Bare Soil	0
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Riprap	1
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	2	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>44</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (1)  
Crossing Material: Metal/Reinforced Concrete  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: \*Additional land owners: CENTER FOR ORANGUTAN

## Coons Bay Branch

Sediment Risk Index: 50-Low

Watershed: Peace River  
Subwatershed: Lower Payne Creek  
Latitude: 27.598011  
Longitude: -81.858859  
Road Name: Peeples Rd.

County: Hardee  
Site Number: PU053  
LULC: Natural Forest, Citrus Groves  
Land Owner(s): MOSAIC FERTILIZER LLC



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Poor/Bare Soil	1
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>50</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (1)

Crossing Material: Corrugated Metal

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes:



## Unnamed Tributary

Sediment Risk Index: 54-Low

Watershed: Peace River  
Subwatershed: Alligator Branch  
Latitude: 27.461894  
Longitude: -81.770118  
Road Name: John Carlton Rd.

County: Hardee  
Site Number: PU054  
LULC: Pasture, Citrus Groves, Natural Forest, Wetland  
Land Owner(s): RAFTER C RANCH INC\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	E	5
DS Bank Alteration	Minor/Partial	3
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>54</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (3)

Crossing Material: PVC/Concrete

Culvert Outfall Drop: 1 ft.

Fish Passage Barrier: Present

Notes: Cement pad drop off, \*Additional land owners: CARLTON ELLA MAE

## Prairie Creek

**Sediment Risk Index: 34-High**

Watershed: Peace River

Subwatershed: Lower Prairie Creek

Latitude: 27.025430

Longitude: -81.875098

Road Name: Unnamed road

County: Charlotte

Site Number: PU055

LULC: Natural Forest

Land Owner(s): Charlotte County



Right Approach from ford



Right approach from hilltop

Risk Factor	Ranking	Score
US Channel Morph	Ponded	1
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	0.21 to 0.40	3
Approach Slope Mean	>4.0%	1
Road Approach Material	All Native Soil	1
Upstream Rt Outlet	Bare Soil	0
Upstream Lt Outlet	Bare Soil	0
Upstream Rt Ditch	Bare Soil	0
Upstream Lt Ditch	Bare Soil	0
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Bare Soil	0
Downstream Lt Ditch	Bare Soil	0
Improved Outlet Total	0	1
Improved Ditches Total	0	1
<b>SRI Total:</b>		<b>34</b>



### Additional Site Features

Crossing Type and Quantity: Ford

Crossing Material: Native Soil

Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes: Located within Prairie Creek Preserve; Used by Charlotte County employees



# Whidden Creek

Sediment Risk Index: 42-Moderate

Watershed: Peace River  
Subwatershed: Whidden Creek  
Latitude: 27.71048  
Longitude: -81.89163  
Road Name: District Line Rd.

County: Polk  
Site Number: PU056  
LULC: Historic Phosphate Mining, Wetland, Natural Forest  
Land Owner(s):US AGRI CHEMICALS CORP\*

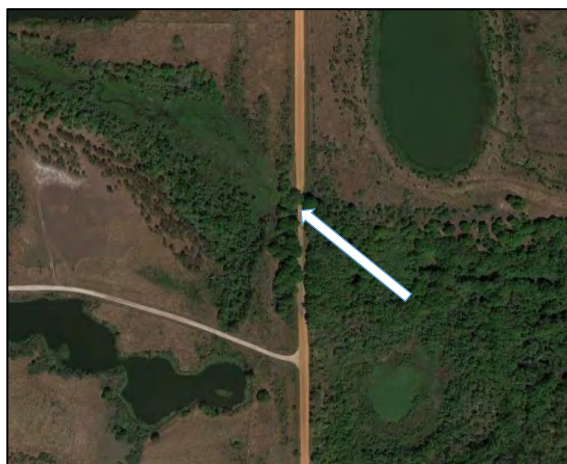


Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	DA	3
DS Bank Alteration	Natural	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Fair	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	> 40 c.y.	1
Soil K Factor	≤0.20	5
Approach Slope Mean	2.1% to 4.0%	3
Road Approach Material	All Native Soil	1
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>42</b>



## Additional Site Features

Crossing Type and Quantity: Bridge (1)  
Crossing Material: Reinforced Concrete  
Culvert Outfall Drop: NA  
Fish Passage Barrier: Not Present  
Notes: \*Additional land owners: STILLWATER PRESERVE DEVELOPMENT LLC

# Little Payne Creek

Sediment Risk Index: 35-High

Watershed: Peace River

Subwatershed: Little Payne Creek

Latitude: 27.67908

Longitude: -81.91555

Road Name: Walker Rd.

County: Polk

Site Number: PU057

LULC: Natural Forest, Phosphate Mining (Historic & Active)

Land Owner(s): DEP\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	Ponded	1
DS Channel Morph	C	5
DS Bank Alteration	High	1
Upstream Skew Angle	>30°	1
Crossing fill condition	Riprap/Poor	2
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	Aggregate/Native Soil	3
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Bare Soil	0
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Bare Soil	0
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Bare Soil	0
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	1	2
Improved Ditches Total	3	0
<b>SRI Total:</b>		<b>35</b>



## Additional Site Features

Crossing Type and Quantity: Culvert (3)

Crossing Material: Corrugated Metal

Culvert Outfall Drop: 0.8 ft.

Fish Passage Barrier: Present

Notes: Deep scour pool, \*Additional land owners: STILLWATER PRESERVE DEVELOPMENT LLC



## Olive Branch

Sediment Risk Index: 51-Low

Watershed: Peace River  
Subwatershed: Lower Payne Creek  
Latitude: 27.63296  
Longitude: -81.89565  
Road Name: Pool Rd.

County: Hardee  
Site Number: PU058  
LULC: Natural Forest, Citrus Groves, Pasture  
Land Owner(s): WOODARD VANCE J\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	5° to 30°	2
Crossing fill condition	Fair	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>51</b>



### Additional Site Features




Crossing Type and Quantity: Culvert (1)

Crossing Material: Reinforced Concrete

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: \*Additional land owners: MOSAIC FERTILIZER LLC

Unnamed Tributary			Sediment Risk Index: 50-Low	
Watershed: Peace River Subwatershed: Upper Payne Creek Latitude: 27.63119 Longitude: -81.97923 Road Name: John Gill Rd.			County: Hardee Site Number: PU059 LULC: Natural Forest  Land Owner(s): HARDEE COUNTY	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>		
US Channel Morph	Ponded	1		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Vegetated	5		
Inlet/Outlet Condition	Blocked	1		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1	Crossing Type and Quantity: Culvert (4)	
<b>SRI Total:</b> 50			Crossing Material: Metal	
			Culvert Outfall Drop: 0 in.	
			Fish Passage Barrier: Not Present	
			Notes: Hardee Lakes County Park; Two roads included in left approach	



## Unnamed Tributary

Sediment Risk Index: 40-Moderate

Watershed: Peace River  
Subwatershed: Lower Payne Creek  
Latitude: 27.62186  
Longitude: -81.91206  
Road Name: Prines Rd.

County: Hardee  
Site Number: PU060  
LULC: Pasture, Citrus Groves  
Land Owner(s): BEST GLENDA\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	F	1
DS Channel Morph	F	1
DS Bank Alteration	High	1
Upstream Skew Angle	5° to 30°	3
Crossing fill condition	Fair/Riprap	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Bare Soil	0
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	3	0
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>40</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (2)

Crossing Material: Corrugated Metal

Culvert Outfall Drop: 3 in.

Fish Passage Barrier: Present

Notes: \*Additional land owners: MOSAIC FERTILIZER LLC

## Unnamed Tributary

Sediment Risk Index: 42-Moderate

Watershed: Peace River

Subwatershed: Thompson Branch

Latitude: 27.62857

Longitude: -81.82051

Road Name: Captive Ave.

County: Hardee

Site Number: PU061

LULC: Residential

Land Owner(s): GARCIA JOSE O QUINTERO\*



Left Approach from Crossing Structure



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	G	1
DS Channel Morph	G	1
DS Bank Alteration	High	1
Upstream Skew Angle	<5°	5
Crossing fill condition	Fair	3
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤0.20	5
Approach Slope Mean	≤2.0%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Bare Soil	0
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	3	0
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>42</b>



### Additional Site Features

Crossing Type and Quantity: Culvert (1)




Crossing Material: Corrugated Metal

Culvert Outfall Drop: 5 in.



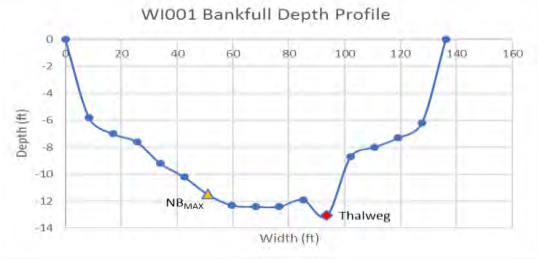
Fish Passage Barrier: Present

Notes: \*Additional land owners: REEVES MICHAEL AND JIMMY AND



Little Charlie Creek			Sediment Risk Index: 50-Low	
Watershed: Peace River Subwatershed: Little Charlie Creek Latitude: 27.62716 Longitude: -81.72779 Road Name: Locklar Rd.			County: Hardee Site Number: PU062 LULC: Natural Forest, Citrus Groves, Phosphate Mining Land Owner(s): SEANSA LLC*	
				
Left Approach from Crossing Structure			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	> 40 c.y.	1		
Soil K Factor	≤0.20	5		
Approach Slope Mean	≤2.0%	5		
Road Approach Material	All Native Soil	1		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		50	Additional Site Features	
			Crossing Type and Quantity: Bridge (1)	
			Crossing Material: Wood/Concrete	
			Culvert Outfall Drop: NA	
			Fish Passage Barrier: Not Present	
			Notes: Fence across stream under bridge - debris jam potential; USGS gaging station at crossing, *Additional land owners: MOSAIC FERTILIZER LLC	

Appendix C. Withlacoochee River Watershed impairment site summaries.

Withlacoochee River			Severity Scale: 3.25-Low
Watershed: Withlacoochee River Subwatershed: West Lake Rousseau (Barge Canal) Latitude: 29.020844 Longitude: -82.639861			County: Citrus Site Number: WI001 Reach Length: 25 ft. Landowner: Michael Collins
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	Historic	0.5	
Bank Erosion:	Active	0.5	
BEHI:	High (30.14)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	30 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Partial	0.25	
<b>Severity Scale:</b>		<b>3.25</b>	
			Additional Site Features
			Stream Channel Woody Material: Moderate
			Impoundments: Manmade (Lake Rousseau)
			Substrate Composition: Medium Sand
			Bank Material: Sand
			Near Bank Stress: Low
			RB Landuse: Recreation, Natural Forest
			LB Landuse: Natural Forest, Residential
Notes: Unpaved road beside dam on right bank w/recreational access; Discharge from dam released at 90 degree angle to stream channel on left bank at site; 303d: Impaired - DO and Benthic Macroinvertebrates Bioassessments			
Restoration Option 1			



# Withlacoochee River

Severity Scale: 5.0-Moderate

Watershed: Withlacoochee River

Subwatershed: West Lake Rousseau (Barge Canal)

Latitude: 29.030458

Longitude: -82.680134

County: Citrus

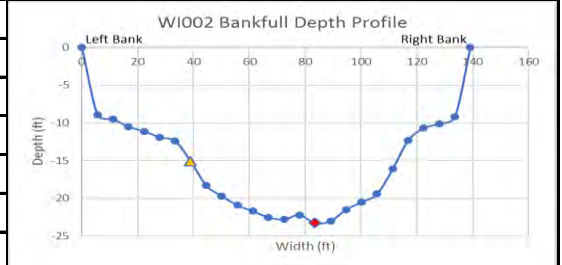
Site Number: WI002

Reach Length: 94 ft.

Landowner: Withlacoochee LLC



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (33.33)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		5.0



## Additional Site Features

Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Utilities
LB Landuse: Pasture

Notes: Cleared land for gas pipeline & powerlines; Cattle present; 303d: Impaired - DO and Benthic Macroinvertebrates Bioassessments

Restoration Option 2 or 3

# Withlacoochee River

Severity Scale: 4.25-Moderate

Watershed: Withlacoochee River

Subwatershed: West Lake Rousseau (Barge Canal)

Latitude: 29.01766

Longitude: -82.63734

County: Citrus

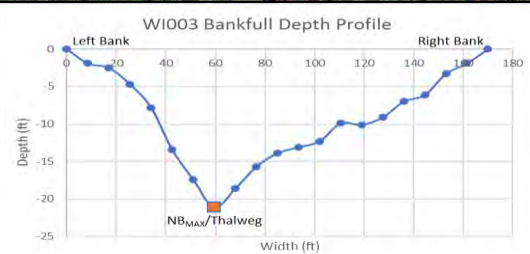
Site Number: WI003

Reach Length: 306 ft.

Landowner: Justin A. Lamb



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Mass-wasting	1.5
BEHI:	High (36.06)	1
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>4.25</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate

RB Landuse: Natural Forest

LB Landuse: Residential

Notes: Well-manicured lawn; Dock construction at site; Site is below dam w/little flow

fluctuations at the confluence of old Withlacoochee River channel and Cross FL Barge Canal;

303d: Impaired - Chlorophyll-A , DO, mercury in fish tissues

Restoration Option 1



# Withlacoochee River

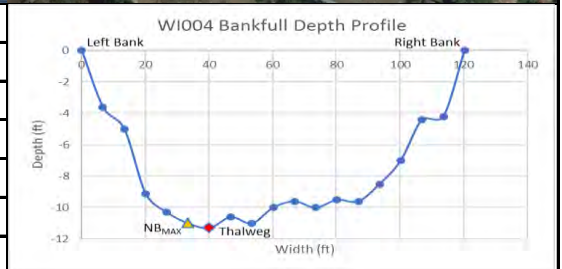
Severity Scale: 1.5-Low

Watershed: Withlacoochee River  
Subwatershed: North Tsala Apopka Lake  
Latitude: 28.99169  
Longitude: -82.35630

County: Citrus  
Site Number: WI004  
Reach Length: 217 ft.  
Landowner: Duke Energy Florida Inc.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (23.30)	0.5
Local NPSP:	No Evidence	0
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0



Additional Site Features
Stream Channel Woody Material: Infrequent
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: High
RB Landuse: Utilities
LB Landuse: Utilities, Residential

**Severity Scale: 1.5**

Notes: Along cleared area for power lines where vegetation is regrowing; boat dock present  
w/more erosion than area under power lines; 303d: Impaired - DO, Benthic Macroinvertebrates  
Bioassessment and mercury in fish tissues

Restoration Option 1

# Withlacoochee River

Severity Scale: 3.25-Low

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.44989

Longitude: -82.14579

County: Pasco

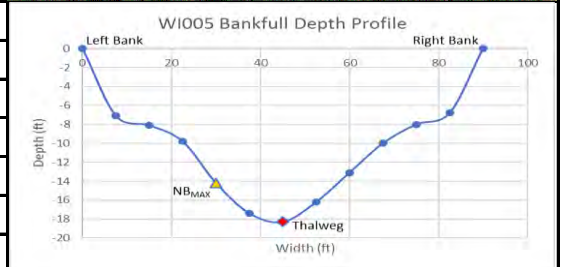
Site Number: WI005

Reach Length: 200 ft.

Landowner: State of Florida (TIITF)



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (36.49)	1
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>3.25</b>



## Additional Site Features

Stream Channel Woody Material: Infrequent

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate

RB Landuse: Natural Forest, Transportation

LB Landuse: Natural Forest

Notes: 303d: Impaired - DO and mercury in fish tissues

Restoration Option 1



# Withlacoochee River

Severity Scale: 4.0-Low

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.47841

Longitude: -82.17411

County: Pasco

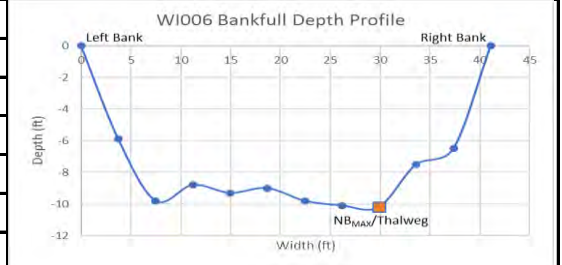
Site Number: WI006

Reach Length: 100 ft.

Landowner: Philip & Irmgard L Veith



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (26.50)	0.5
Local NPSP:	Slight Potential	0.5
Shoring Structures:	Present	1.5
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		4.0



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: High

RB Landuse: Residential, Natural Forest

LB Landuse: Natural Forest

Notes: 303d: Impaired - DO and mercury in fish tissues

Restoration Option 1

## Withlacoochee River

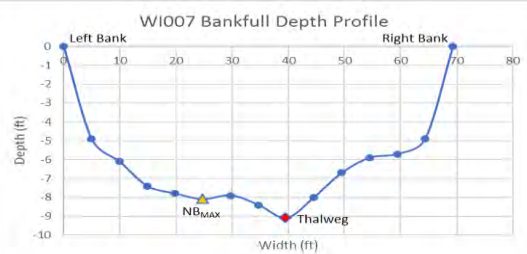
Severity Scale: 3.25-Low

Watershed: Withlacoochee River  
Subwatershed: Dobes Hole Lake  
Latitude: 28.35194  
Longitude: -82.12609

County: Pasco  
Site Number: WI007  
Reach Length: 45 ft.  
Landowner: SWFWMD



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (36.51)	1
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		3.25



### Additional Site Features

Stream Channel Woody Material: Infrequent  
Impoundments: None  
Substrate Composition: Medium Sand  
Bank Material: Sand  
Near Bank Stress: Low  
RB Landuse: Natural Forest  
LB Landuse: Recreation, Natural Forest

Notes: Site next to bridge in Withlacoochee State Forest w/fishing access; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 1



# Withlacoochee River

Severity Scale: 4.75-Moderate

Watershed: Withlacoochee River

Subwatershed: Dobes Hole Lake

Latitude: 28.35389

Longitude: -82.12552

County: Pasco

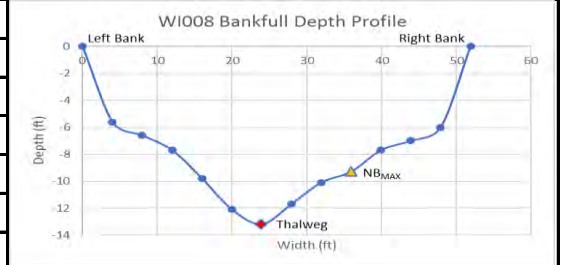
Site Number: WI008

Reach Length: 30 ft.

Landowner: SWFWMD



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (36.55)	1
Local NPSP:	Slight Potential	0.5
Shoring Structures:	Present	1.5
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>4.75</b>



## Additional Site Features

Stream Channel Woody Material: None

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Low

RB Landuse: Recreation, Natural Forest

LB Landuse: Natural Forest

Notes: Upstream side of boat ramp; Rip-rap falling into river w/silt fencing underneath; 303d:

Impaired - DO and mercury in fish tissues

Restoration Option 2

# Withlacoochee River

Severity Scale: 2.75-Low

Watershed: Withlacoochee

Subwatershed: Silver Lake

Latitude: 28.59341

Longitude: -82.22146

County: Sumter

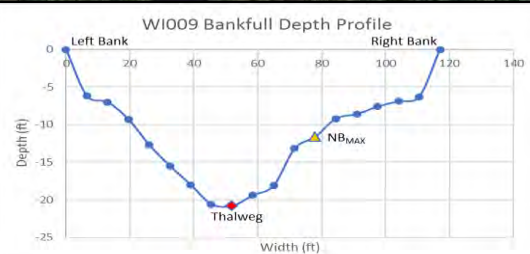
Site Number: WI009

Reach Length: 64 ft.

Landowner: State of Florida\*



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (25.06)	0.5
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>2.75</b>



## Additional Site Features

Stream Channel Woody Material: Infrequent

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Low



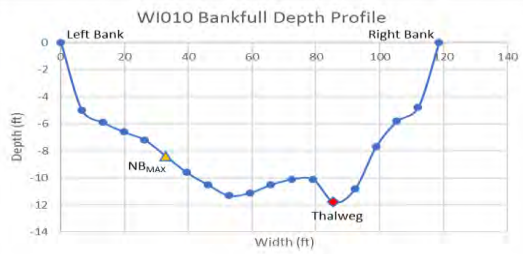
RB Landuse: Recreation, Natural Forest

LB Landuse: Natural Forest

Notes: \*TIITF/Forestry; Day use area in Withlacoochee State Forest - boat ramp, picnic tables, dirt access road; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 2 or 3



Withlacoochee River			Severity Scale: 3.0-Low	
Watershed: Withlacoochee River Subwatershed: Silver Lake Latitude: 28.59762 Longitude: -82.22670			County: Hernando Site Number: WI010 Reach Length: 85 ft. Landowner: DEP Div. of State Lands*	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0	<b>Additional Site Features</b> Stream Channel Woody Material: Infrequent Impoundments: None Substrate Composition: Medium Sand Bank Material: Sand Near Bank Stress: Low RB Landuse: Natural Forest LB Landuse: Natural Forest, Recreation	
Bank Erosion:	Active	1		
BEHI:	Moderate (28.43)	0.5		
Local NPSP:	Moderate Potential	1		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	40 ft.	0.5		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Full	0		
<b>Severity Scale:</b>		<b>3.0</b>		
Notes: *TIITF; Sediment input from unpaved access road; 303d: Impaired - DO and mercury in fish tissues				
Restoration Option 2 or 3				

# Withlacoochee River

Severity Scale: 4.25-Moderate

Watershed: Withlacoochee River

Subwatershed: Silver Lake

Latitude: 28.68755

Longitude: -82.25679

County: Citrus

Site Number: WI011

Reach Length: 25 ft.

Landowner: Ava K. & Terrence Cronin Jr.



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (38.83)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
Severity Scale:		4.25



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate

RB Landuse: Natural Forest, Residential

LB Landuse: Pasture

Notes: Cattle fencing downstream of site; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 2 or 3



# Withlacoochee River

Severity Scale: 5.25-Moderate

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.48021

Longitude: -82.17745

County: Hernando

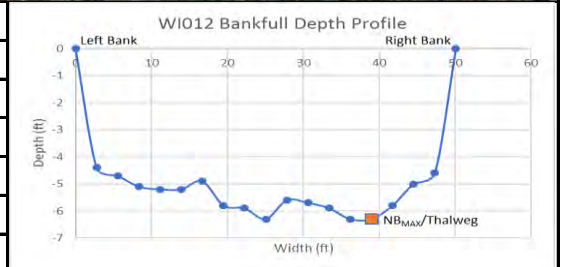
Site Number: WI012

Reach Length: 95 ft.

Landowner: Hernando County



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	Historic	0.5
Bank Erosion:	Active	1
BEHI:	High (36.93)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	40 ft.	0.5
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>5.25</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: High

RB Landuse: Transportation

LB Landuse: Transportation

Notes: Under Hwy 35 bridge; Some sediment input from left bank; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 2 or 3

# Withlacoochee River

Severity Scale: 2.75-Low

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.48039

Longitude: -82.17815

County: Hernando

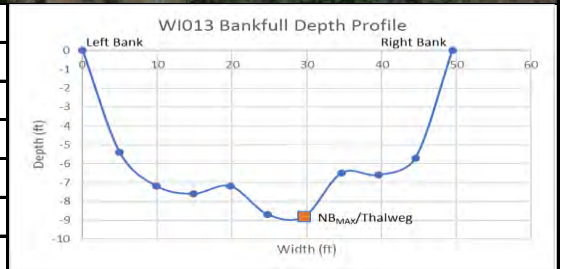
Site Number: WI013

Reach Length: 20 ft.

Landowner: Jeffrey & Carol Dunfee



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (26.45)	0.5
Local NPSP:	Moderate Potential	1
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	100 ft.	0
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>2.75</b>



Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Moderate
RB Landuse: Natural Forest, Recreation
LB Landuse: Natural Forest

Notes: Rope swing/swimming hole; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 1



# Withlacoochee River

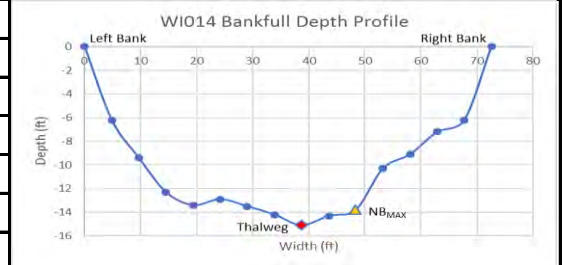
Severity Scale: 4.25-Moderate

Watershed: Withlacoochee River  
Subwatershed: Devil's Creek  
Latitude: 28.48093  
Longitude: -82.18965

County: Hernando  
Site Number: WI014  
Reach Length: 25 ft.  
Landowner: Larry J. Davis



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (33.19)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
<b>Severity Scale:</b>		<b>4.25</b>



## Additional Site Features

Stream Channel Woody Material: Moderate  
Impoundments: None  
Substrate Composition: Medium Sand  
Bank Material: Sand  
Near Bank Stress: Moderate  
RB Landuse: Natural Forest, Recreation  
LB Landuse: Natural Forest

Notes: Unpaved road on top of bank causing sediment input into river; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 2 or 3

# Withlacoochee River

Severity Scale: 3.75-Low

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.47792

Longitude: -82.19393

County: Pasco

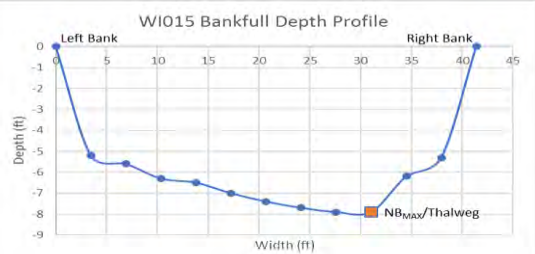
Site Number: WI015

Reach Length: 35 ft.

Landowner: HBHCI\*



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	Moderate (26.08)	0.5
Local NPSP:	No Evidence	0
Shoring Structures:	Present	1.5
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Full	0



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: High

RB Landuse: Residential

LB Landuse: Natural Forest

Severity Scale: 3.75

Notes: \*Harbor Behavioral Health Care Institute; Concrete shoring structures present; 303d:

Impaired - DO and mercury in fish tissues

Restoration Option 1



## Withlacoochee River

Severity Scale: 3.75-Low

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.49231

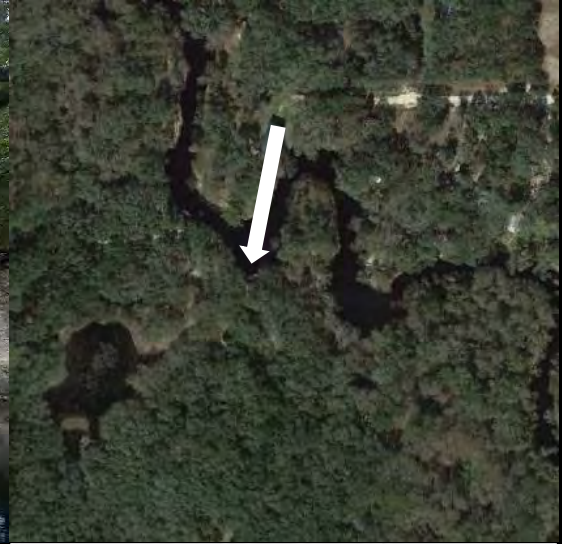
Longitude: -82.20316

County: Hernando

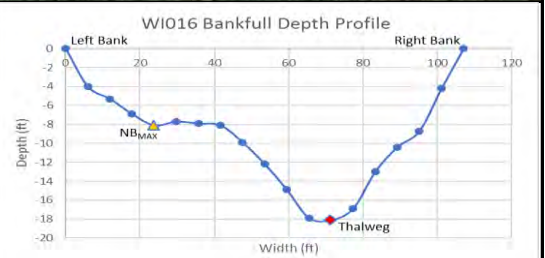
Site Number: WI016

Reach Length: 100 ft.

Landowner: KML Properties LLC



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (33.41)	1
Local NPSP:	Slight Potential	0.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	60 ft.	0.25
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>3.75</b>



### Additional Site Features

Stream Channel Woody Material: Infrequent

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand



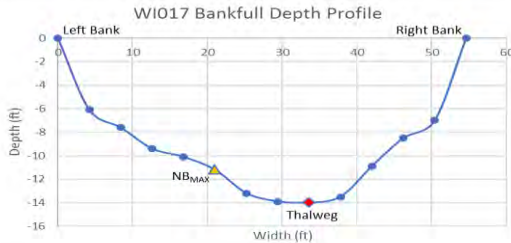
Near Bank Stress: Low

RB Landuse: Residential, Natural Forest



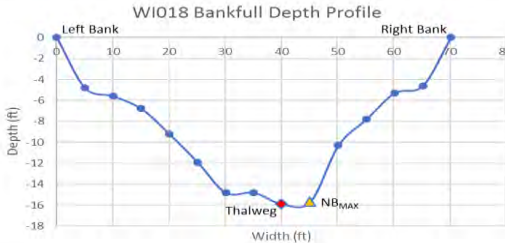
LB Landuse: Natural Forest, Pasture

Notes: 303d: Impaired - DO and mercury in fish tissues

Restoration Option 1

Withlacoochee River			Severity Scale: 2.25-Low																													
Watershed: Withlacoochee River Subwatershed: Devil's Creek Latitude: 28.49285 Longitude: -82.20367			County: Hernando Site Number: WI017 Reach Length: 60 ft. Landowner: Paul E. & Reeta M. Elgland																													
																																
Risk Factor	Ranking	Score	 <p>WI017 Bankfull Depth Profile</p> <table border="1"><thead><tr><th>Width (ft)</th><th>Depth (ft)</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>5</td><td>-6</td></tr><tr><td>10</td><td>-8</td></tr><tr><td>15</td><td>-9</td></tr><tr><td>20</td><td>-10</td></tr><tr><td>25</td><td>-11</td></tr><tr><td>30</td><td>-12</td></tr><tr><td>35</td><td>-13</td></tr><tr><td>40</td><td>-12</td></tr><tr><td>45</td><td>-10</td></tr><tr><td>50</td><td>-8</td></tr><tr><td>55</td><td>-6</td></tr><tr><td>60</td><td>0</td></tr></tbody></table> <p>Left Bank</p> <p>Right Bank</p> <p>Thalweg</p> <p>NB<sub>MAX</sub></p>		Width (ft)	Depth (ft)	0	0	5	-6	10	-8	15	-9	20	-10	25	-11	30	-12	35	-13	40	-12	45	-10	50	-8	55	-6	60	0
Width (ft)	Depth (ft)																															
0	0																															
5	-6																															
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30	-12																															
35	-13																															
40	-12																															
45	-10																															
50	-8																															
55	-6																															
60	0																															
Pfankuch-Channel Stability:	Good	0																														
Channel Alteration:	None	0																														
Bank Erosion:	Active	1																														
BEHI:	Moderate	0.5																														
Local NPSP:	No Evidence	0																														
Shoring Structures:	None	0																														
Pipe Discharge:	None	0																														
Water Odor:	Normal	0																														
Fish Passage Barrier:	None	0																														
RB: Riparian Buffer:	40 ft.	0.5																														
LB: Riparian Buffer:	100 ft.	0																														
RB: Floodplain Access:	Full	0																														
LB: Floodplain Access:	Partial	0.25																														
Severity Scale:		2.25	Additional Site Features																													
			Stream Channel Woody Material: Infrequent																													
			Impoundments: None																													
			Substrate Composition: Medium Sand																													
			Bank Material: Sand																													
			Near Bank Stress: Low																													
			RB Landuse: Natural Forest																													
			LB Landuse: Natural Forest, Residential																													
Notes: 303d: Impaired - DO and mercury in fish tissues																																
Restoration Option 1																																



Withlacoochee River			Severity Scale: 4.0-Low	
Watershed: Withlacoochee River			County: Hernando	
Subwatershed: Devil's Creek			Site Number: WI018	
Latitude: 28.49939			Reach Length: 70 ft	
Longitude: -82.19907			Landowner: Emory R. & Marjorie Waddle	
				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Mass-wasting	1.5		
BEHI:	Very High (44.48)	1.5		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	60 ft.	0.25	Additional Site Features	
LB: Riparian Buffer:	40 ft.	0.5	Stream Channel Woody Material: Moderate	
RB: Floodplain Access:	Partial	0.25	Impoundments: None	
LB: Floodplain Access:	Full	0	Substrate Composition: Medium Sand	
Severity Scale: 4.0			Bank Material: Sand	
			Near Bank Stress: Moderate	
			RB Landuse: Residential, Natural Forest	
			LB Landuse: Natural Forest, Residential	
Notes: 303d: Impaired - DO and mercury in fish tissues				
Restoration Option 1				

## Withlacoochee River

**Severity Scale: 7.5-High**

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.51930

Longitude: -82.20953

County: Hernando

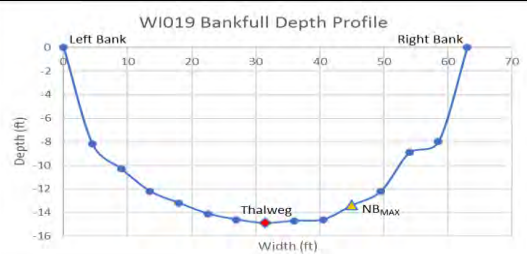
Site Number: WI019

Reach Length: 16 ft.

Landowner: State of Florida DOT



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	Historic	0.5
Bank Erosion:	Active	1
BEHI:	High (37.52)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	Present	1.5
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>7.5</b>



### Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate

RB Landuse: Transportation

LB Landuse: Transportation

Notes: Right bank under Hwy 98 bridge; Some ruts formed by sediment and water flow; 303d:

Impaired - DO and mercury in fish tissues

Restoration Option 2



# Withlacoochee River

Severity Scale: 7.5-High

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.51922

Longitude: -82.20964

County: Hernando

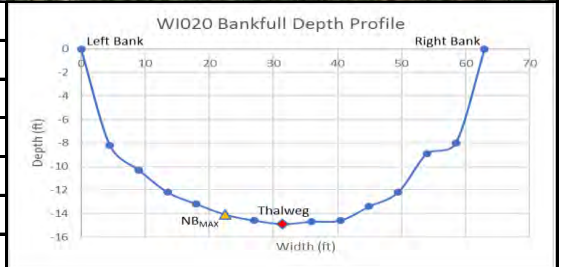
Site Number: WI020

Reach Length: 16 ft.

Landowner: State of Florida DOT



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	Historic	0.5
Bank Erosion:	Active	1
BEHI:	High (32.84)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	Present	1.5
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	0 ft.	0.75
LB: Riparian Buffer:	0 ft.	0.75
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>7.5</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate

RB Landuse: Transportation

LB Landuse: Transportation

Notes: Left bank under Hwy 98 bridge; Some ruts formed by sediment and water flow; 303d:

Impaired - DO and mercury in fish tissues

Restoration Option 2

# Withlacoochee River

Severity Scale: 4.25-Moderate

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.54764

Longitude: -82.19768

County: Hernando

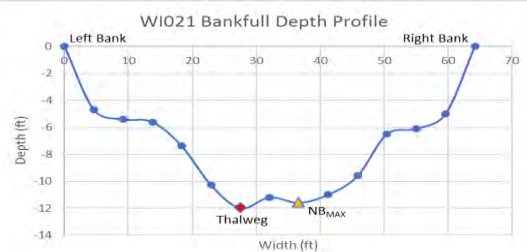
Site Number: WI021

Reach Length: 100 ft.

Landowner: Steven H Parker



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (33.65)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	40 ft.	0.5
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Full	0
LB: Floodplain Access:	Partial	0.25
<b>Severity Scale:</b>		<b>4.25</b>



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Low



RB Landuse: Natural Forest, Recreation

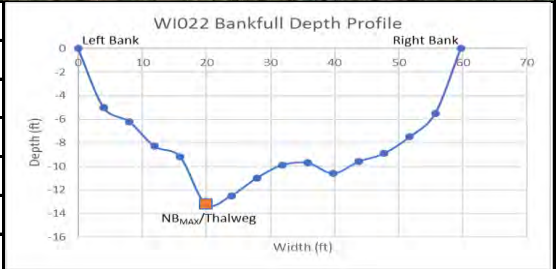
LB Landuse: Natural Forest

Notes: Unpaved access road to rope swing; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 1



Withlacoochee River			Severity Scale: 2.25-Low	
Watershed: Withlacoochee River Subwatershed: Devil's Creek Latitude: 28.54908 Longitude: -82.20045			County: Hernando Site Number: WI022 Reach Length: 30 ft. Landowner: DEP Div. of State Lands	
 				
Risk Factor	Ranking	Score		
Pfankuch-Channel Stability:	Good	0		
Channel Alteration:	None	0		
Bank Erosion:	Active	1		
BEHI:	High (36.61)	1		
Local NPSP:	No Evidence	0		
Shoring Structures:	None	0		
Pipe Discharge:	None	0		
Water Odor:	Normal	0		
Fish Passage Barrier:	None	0		
RB: Riparian Buffer:	100 ft.	0		
LB: Riparian Buffer:	100 ft.	0		
RB: Floodplain Access:	Full	0		
LB: Floodplain Access:	Partial	0.25		
Severity Scale:		2.25		
Notes: 303d: Impaired - DO and mercury in fish tissues				
Restoration Option 1				



Additional Site Features	
Stream Channel Woody Material: Moderate	
Impoundments: None	
Substrate Composition: Medium Sand	
Bank Material: Sand	
Near Bank Stress: High	
RB Landuse: Natural Forest	
LB Landuse: Natural Forest	

# Withlacoochee River

Severity Scale: 4.0-Low

Watershed: Withlacoochee River

Subwatershed: Devil's Creek

Latitude: 28.56478

Longitude: -82.20052

County: Hernando

Site Number: WI023

Reach Length: 30 ft.

Landowner: DEP Div. of State Lands



Risk Factor	Ranking	Score
Pfankuch-Channel Stability:	Good	0
Channel Alteration:	None	0
Bank Erosion:	Active	1
BEHI:	High (37.80)	1
Local NPSP:	Obvious Sources	1.5
Shoring Structures:	None	0
Pipe Discharge:	None	0
Water Odor:	Normal	0
Fish Passage Barrier:	None	0
RB: Riparian Buffer:	60 ft.	0.25
LB: Riparian Buffer:	100 ft.	0
RB: Floodplain Access:	Partial	0.25
LB: Floodplain Access:	Full	0
Severity Scale:		4.0



## Additional Site Features

Stream Channel Woody Material: Moderate

Impoundments: None

Substrate Composition: Medium Sand

Bank Material: Sand

Near Bank Stress: Moderate



RB Landuse: Natural Forest, Recreation

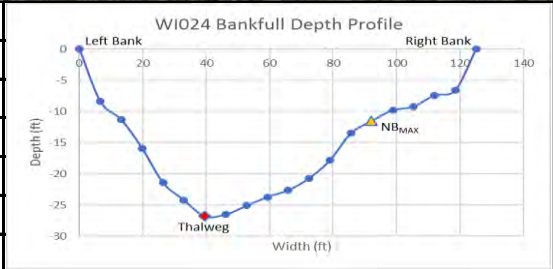
LB Landuse: Natural Forest

Notes: Unpaved road to recreation area; 303d: Impaired - DO and mercury in fish tissues

Restoration Option 1






Withlacoochee River			Severity Scale: 3.0-Low
Watershed: Withlacoochee River Subwatershed: Silver Lake Latitude: 28.57208 Longitude: -82.20734			County: Sumter Site Number: WI024 Reach Length: 150 ft. Landowner: DEP Div. of State Lands
 			
Risk Factor	Ranking	Score	
Pfankuch-Channel Stability:	Good	0	
Channel Alteration:	None	0	
Bank Erosion:	Active	1	
BEHI:	High (38.49)	1	
Local NPSP:	Slight Potential	0.5	
Shoring Structures:	None	0	
Pipe Discharge:	None	0	
Water Odor:	Normal	0	
Fish Passage Barrier:	None	0	
RB: Riparian Buffer:	40 ft.	0.5	
LB: Riparian Buffer:	100 ft.	0	
RB: Floodplain Access:	Full	0	
LB: Floodplain Access:	Full	0	
Severity Scale:		3.0	
Notes: Bank next to boat ramp used for loading/unloading passengers; Downstream of site has sediment build up and makes boat passage difficult at low flow; 303d: Impaired - DO and mercury in fish tissues			
Restoration Option 1			



Additional Site Features
Stream Channel Woody Material: Moderate
Impoundments: None
Substrate Composition: Medium Sand
Bank Material: Sand
Near Bank Stress: Low
RB Landuse: Recreation, Natural Forest
LB Landuse: Natural Forest

Appendix D. Withlacoochee River Watershed unpaved road crossing site summaries.

Withlacoochee River			Sediment Risk Index: 57-Low	
Watershed: Withlacoochee River Subwatershed: Pony Creek Latitude: 28.32578 Longitude: -81.93182 Road Name: Main Grade Rd.			County: Polk Site Number: WU001 LULC: Natural Forest Land Owner(s): SWFWMD	
				
Crossing Structure: DS			Crossing Structure: Right Approach	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	< 5°	5		
Crossing fill condition	Vegetated/Rip-rap	4		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	0.21-0.40	3		
Approach Slope Mean	< 2%	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated/Rip-rap	1		
Upstream Lt Outlet	Vegetated/Rip-rap	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated/Rip-rap	1		
Downstream Lt Outlet	Vegetated/Rip-rap	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		57	Additional Site Features Crossing Type and Quantity: Bridge Crossing Material: Wood/Metal Culvert Outfall Drop: NA Fish Passage Barrier: Not Present Notes: Fill is a combination of riprap and vegetation	

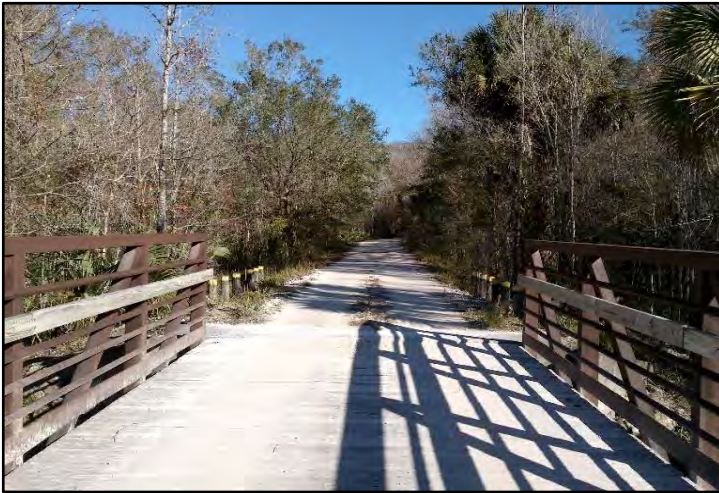


## Unnamed Tributary

Sediment Risk Index: 57-Low

Watershed: Withlacoochee River  
 Subwatershed: Pony Creek  
 Latitude: 28.32694  
 Longitude: -81.93150  
 Road Name: Main Grade Rd.

County: Polk  
 Site Number: WU002  
 LULC: Natural Forest  
 Land Owner(s): SWFWMD



Crossing Structure: Right Approach



US Channel from Crossing

Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	Wetland	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	< 5°	5
Crossing fill condition	Vegetated/Rip-rap	4
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	0.21-0.40	3
Approach Slope Mean	< 2%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated/Rip-rap	1
Upstream Lt Outlet	Vegetated/Rip-rap	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
SRI Total:		57



### Additional Site Features

Crossing Type and Quantity: Bridge

Crossing Material: Wood/Metal

Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes: Fill is a combination of riprap and vegetation

## Unnamed Tributary

Sediment Risk Index: 56-Low

Watershed: Withlacoochee River  
Subwatershed: Pony Creek  
Latitude: 28.32819  
Longitude: -81.93130  
Road Name: Main Grade Rd.

County: Polk  
Site Number: WU003  
LULC: Natural Forest  
Land Owner(s): SWFWMD

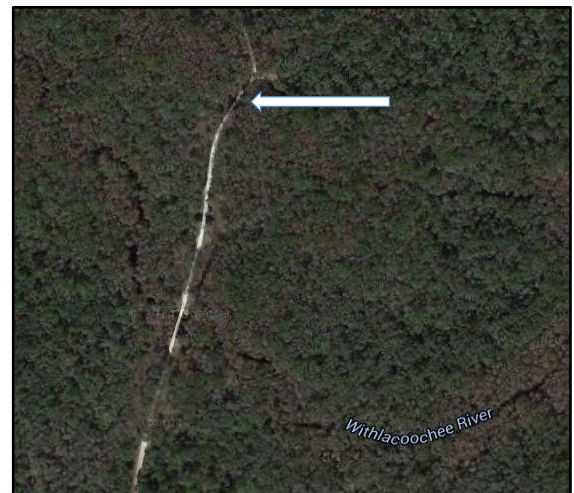


Crossing Structure: DS



Crossing Structure: Left Approach

Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	Wetland	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	< 5°	5
Crossing fill condition	Fair/Rip-rap	3
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	0.21-0.40	3
Approach Slope Mean	< 2%	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
SRI Total:		56



### Additional Site Features

Crossing Type and Quantity: Bridge

Crossing Material: Wood/Metal

Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes:



# Withlacoochee River

Sediment Risk Index: 52-Low

Watershed: Withlacoochee River  
Subwatershed: Lower Withlacoochee Swamp  
Latitude: 28.321392  
Longitude: -82.03099  
Road Name: Main Line Rd

County: Sumter  
Site Number: WU004  
LULC: Natural Forest  
Land Owner(s): SWFWMD



Crossing Structure: Right Approach



Crossing Structure: US

Risk Factor	Ranking	Score
US Channel Morph	DA	3
DS Channel Morph	DA	3
DS Bank Alteration	Natural	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Fair/Riprap	3
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	0.21-0.40	3
Approach Slope Mean	<2°	5
Road Approach Material	All aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>52</b>



## Additional Site Features




Crossing Type and Quantity: Bridge

Crossing Material: Wood, iron

Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes:

Gator Creek			Sediment Risk Index: 46-Low	
Watershed: Withlacoochee River Subwatershed: Gator Creek Latitude: 28.277276 Longitude: -82.031084 Road Name: Colt Creek State Park-Unnamed road			County: Polk Site Number: WU005 LULC: Natural forest  Land Owner(s): SWFWMD	
				
Crossing Structure: Left Approach			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	C	5		
DS Channel Morph	Ponded	1		
DS Bank Alteration	High	1		
Upstream Skew Angle	5°-30°	3		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	Sediment Islands/Scouring	3		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	All aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Bare Soil	0		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	3	0		
<b>SRI Total:</b>		<b>46</b>	<b>Additional Site Features</b>	
			Crossing Type and Quantity: Culvert, 4	
			Crossing Material: Reinforced Concrete	
			Culvert Outfall Drop: 0"	
			Fish Passage Barrier: Not Present	
			Notes: Both ditches on right approach appear to feed into a wetland, not the creek. The left bank has a high berm up and downstream.	



# Little Withlacoochee River

Sediment Risk Index: 60-Low

Watershed: Withlacoochee River  
Subwatershed: Upper Little Withlacoochee River  
Latitude: 28.503113  
Longitude: -82.017251  
Road Name: N. Grade Rd.

County: Sumter  
Site Number: WU006  
LULC: Natural forest  
Land Owner(s): State of Florida



Crossing Structure: Left Approach



Crossing Structure: US

Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	Wetland	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤ 0.20	5
Approach Slope Mean	<2°	5
Road Approach Material	All aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
SRI Total:		60



## Additonal Site Features




Crossing Type and Quantity: Bridge

Crossing Material: Wood




Culvert Outfall Drop: NA

Fish Passage Barrier: Not Present

Notes:

Unnamed Tributary			Sediment Risk Index: 60-Low	
Watershed: Withlacoochee River Subwatershed: Gum Swamp Latitude: 28.89766 Longitude: -82.23651 Road Name: CR 247			County: Sumter Site Number: WU007 LULC: Natural forest  Land Owner(s): TIITF/GFWFC	
				
Crossing Structure: Right Approach			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	All aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
SRI Total:		60	Additional Site Features	
			Crossing Type and Quantity: Bridge	
			Crossing Material: Wood	
			Culvert Outfall Drop: NA	
			Fish Passage Barrier: Not Present	
			Notes: Located on half moon WMA	



Unnamed Tributary			Sediment Risk Index: 60-Low	
Watershed: Withlacoochee River Subwatershed: Jumper Creek Swamp Latitude: 28.75838 Longitude: -82.16146 Road Name: Unnamed road			County: Sumter Site Number: WU008 LULC: Natural forest  Land Owner(s): WITHLACOOCHEE STATE FOREST	
 <p>Crossing Structure: Right Approach</p>			 <p>Crossing Structure: DS</p>	
Risk Factor	Ranking	Score		
US Channel Morph	Wetland	5		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	All aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>60</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert, 2 Crossing Material: Corrugated Metal Culvert Outfall Drop: 12" Fish Passage Barrier: Present Notes:	

## Jumper Creek Canal

Sediment Risk Index: 52-Low

Watershed: Withlacoochee River  
Subwatershed: Jumper Creek Canal  
Latitude: 28.69956  
Longitude: -82.06298  
Road Name: SE 25th St

County: Sumter  
Site Number: WU009  
LULC: Residential, Natural forest  
Land Owner(s): GALLET YVES P & LISA C\*



Crossing Structure: Right Approach



Crossing Structure: DS



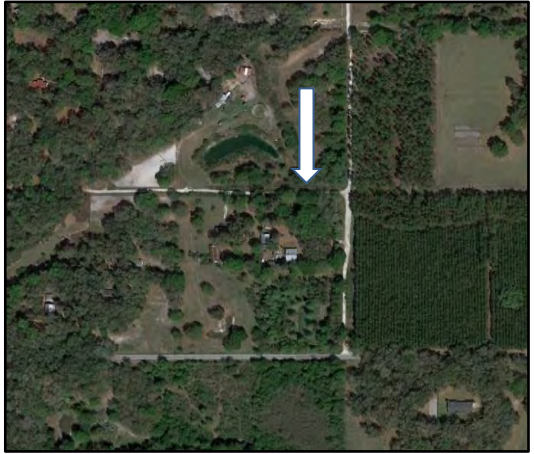
Risk Factor	Ranking	Score
US Channel Morph	C	5
DS Channel Morph	C	5
DS Bank Alteration	High	1
Upstream Skew Angle	5°-30°	3
Crossing fill condition	Good/Vegetated	5
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤ 0.20	5
Approach Slope Mean	<2°	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>52</b>






### Additional Site Features




Crossing Type and Quantity: Culvert, 3  
Crossing Material: Corrugated Metal  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: \*Additional land owners: PRICE WILLIAM T, CAUSEY JOE S & KAREN K, NESSELROTTE TRINA & KEITH






Bear Creek			Sediment Risk Index: 48-Low
Watershed: Withlacoochee River Subwatershed: Gum Slough - Withlacoochee River Latitude: 28.64864 Longitude: -82.14598 Road Name: SW 73rd Ln			County: Sumter Site Number: WU010 LULC: Residential, natural forest  Land Owner(s): MURPHY CARL B & CYNTHIA J*
 <p>Crossing Structure: Right Approach</p>			 <p>Crossing Structure: DS</p>
Risk Factor	Ranking	Score	
US Channel Morph	G	1	
DS Channel Morph	G	1	
DS Bank Alteration	High	1	
Upstream Skew Angle	<5°	5	
Crossing fill condition	Good/Vegetated	5	
Inlet/Outlet Condition	No Impairment	5	
Potential Eroded Vol.	< 21 c.y.	5	
Soil K Factor	≤ 0.20	5	
Approach Slope Mean	<2°	5	
Road Approach Material	All Aggregate	5	
Upstream Rt Outlet	riprap	1	
Upstream Lt Outlet	riprap	1	
Upstream Rt Ditch	Vegetated	1	
Upstream Lt Ditch	Vegetated	1	
Downstream Rt Outlet	Vegetated	1	
Downstream Lt Outlet	Vegetated	1	
Downstream Rt Ditch	Vegetated	1	
Downstream Lt Ditch	Vegetated	1	
Improved Outlet Total	4	1	
Improved Ditches Total	4	1	
<b>SRI Total:</b>		<b>48</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert, 2 Crossing Material: Polyvinyl Chloride Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: *Additional land owners: UNT ALLEN D & BETH A

Unnamed Tributary			Sediment Risk Index: 52-Low	
Watershed: Withlacoochee River Subwatershed: Walled Sink Ditch Latitude: 28.65529 Longitude: -81.95241 Road Name: Shady Grove Rd			County: Lake Site Number: WU011 LULC: Residential, natural forest  Land Owner(s): REYNOLDS ROBERT B*	
 <p>Crossing Structure: Right Approach</p>			 <p>Crossing Structure: DS</p>	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>		
US Channel Morph	F	1		
DS Channel Morph	F	1		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	All Aggregate	5		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	1	1		
Improved Ditches Total	1	1		
<b>SRI Total:</b>		<b>52</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert, 1 Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: *Additional land owners: GROOMS CHARLIE E & DARLENE S	



Unnamed Tributary			Sediment Risk Index: 45-Moderate	
Watershed: Withlacoochee River Subwatershed: Walled Sink Ditch Latitude: 28.65404 Longitude: -81.94587 Road Name: Sunridge Rd			County: Lake Site Number: WU012 LULC: Residential, pasture Land Owner(s): RODGERS BENJAMIN T*	
 <p>Crossing Structure: Right Approach</p>			 <p>Crossing Structure: DS</p>	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>		
US Channel Morph	Ponded	1		
DS Channel Morph	Wetland	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Fair/Rip-rap	3		
Inlet/Outlet Condition	Sediment/Scouring	4		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	Native soil	1		
Upstream Rt Outlet	bare soil	0		
Upstream Lt Outlet	bare soil	0		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	2	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>45</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Culvert, 1 Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes: *Additional land owners: CAPSHAW NANCY A LIFE ESTATE	

Unnamed Tributary			Sediment Risk Index: 56-Low
Watershed: Withlacoochee River Subwatershed: Mill Stream Swamp Latitude: 28.43922 Longitude: -81.83129 Road Name: Ott Williams Rd			County: Lake Site Number: WU013 LULC: Natural forest  Land Owner(s): FARM LAND REAL ESTATE
			
Crossing Structure: Right Approach			Crossing Structure: DS
Risk Factor	Ranking	Score	
US Channel Morph	Wetland	5	
DS Channel Morph	Wetland	5	
DS Bank Alteration	Natural	5	
Upstream Skew Angle	<5°	5	
Crossing fill condition	Good/Vegetated	5	
Inlet/Outlet Condition	No Impairment	5	
Potential Eroded Vol.	>40 c.y.	1	
Soil K Factor	≤ 0.20	5	
Approach Slope Mean	<2°	5	
Road Approach Material	All Aggregate	5	
Upstream Rt Outlet	Vegetated	1	
Upstream Lt Outlet	Vegetated	1	
Upstream Rt Ditch	Vegetated	1	
Upstream Lt Ditch	Vegetated	1	
Downstream Rt Outlet	Vegetated	1	
Downstream Lt Outlet	Vegetated	1	
Downstream Rt Ditch	Vegetated	1	
Downstream Lt Ditch	Vegetated	1	
Improved Outlet Total	4	1	
Improved Ditches Total	4	1	
<b>SRI Total:</b>		56	



## Unnamed Tributary

**Sediment Risk Index: 35-High**

Watershed: Withlacoochee River

Subwatershed: 31002080201

Latitude: 28.22384

Longitude: -81.9985

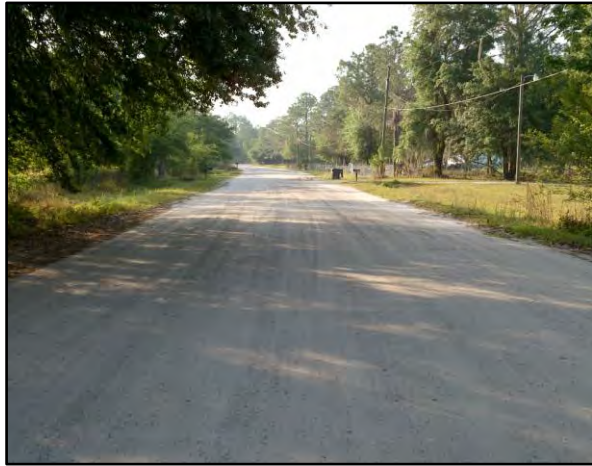
Road Name: Countryland Dr

County: Polk

Site Number: WU014

LULC: Residential, natural forest

Land Owner(s): XAYASONGKHAM BOUNMA\*



Crossing Structure: Right Approach



Crossing Structure: DS

Risk Factor	Ranking	Score
US Channel Morph	G	1
DS Channel Morph	G	1
DS Bank Alteration	High	1
Upstream Skew Angle	>30°	1
Crossing fill condition	Fair/Rip-rap	4
Inlet/Outlet Condition	Sediment/Scouring	3
Potential Eroded Vol.	>40 c.y.	1
Soil K Factor	≤ 0.20	5
Approach Slope Mean	<2°	5
Road Approach Material	All Aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	bare soil	0
Improved Outlet Total	4	1
Improved Ditches Total	3	0
<b>SRI Total:</b>		<b>35</b>



### Additional Site Features

Crossing Type and Quantity: Culvert, 1

Crossing Material: Corrugated Metal

Culvert Outfall Drop: 0 in.

Fish Passage Barrier: Not Present

Notes: Channelized creek, \*Additional land owners: LEE CAROLINE M

## Unnamed Tributary

Sediment Risk Index: 43-Moderate

Watershed: Withlacoochee River  
Subwatershed: Mill Stream Swamp  
Latitude: 28.47756  
Longitude: -81.86454  
Road Name: Los Robles Dr

County: Lake  
Site Number: WU015  
LULC: Residential, natural forest  
Land Owner(s): HILLARY MATTHEW B\*



Crossing Structure: Right Approach



Crossing Structure: DS




Risk Factor	Ranking	Score
US Channel Morph	Wetland	5
DS Channel Morph	F	1
DS Bank Alteration	Minor or Partial	3
Upstream Skew Angle	5°-30°	3
Crossing fill condition	Fair/Rip-rap	3
Inlet/Outlet Condition	Sediment/Scouring	4
Potential Eroded Vol.	21-40 c.y.	3
Soil K Factor	≤ 0.20	5
Approach Slope Mean	<2°	5
Road Approach Material	Native soil	1
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	Vegetated	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	Vegetated	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	Vegetated	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	Vegetated	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>43</b>



### Additional Site Features

Crossing Type and Quantity: Culvert, 2  
Crossing Material: Corrugated Metal  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: Channelized creek, \*Additional land owners: CURTIS WILMONT D JR & GLORIA



Unnamed Tributary			Sediment Risk Index: 50-Low	
Watershed: Withlacoochee River Subwatershed: Mill Stream Swamp Latitude: 28.47034 Longitude: -81.85933 Road Name: Los Robles Dr			County: Lake Site Number: WU016 LULC: Natural forest  Land Owner(s): FEDERAL HOME MORTGAGE	
				
Crossing Structure: Right Approach			Crossing Structure: DS	
Risk Factor	Ranking	Score		
US Channel Morph	Ponded	1		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	5°-30°	3		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	< 21 c.y.	5		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	Native soil	1		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1	Additional Site Features	
Improved Ditches Total	4	1	Crossing Type and Quantity: Culvert, 1	
SRI Total:			Crossing Material: Reinforced Concrete	
			Culvert Outfall Drop: 0 in.	
			Fish Passage Barrier: Not Present	
			Notes: 2 small tributaries upstream	

# Withlacoochee River

Sediment Risk Index: 58-Low

Watershed: Withlacoochee River  
Subwatershed: Ashley Bay  
Latitude: 28.35243  
Longitude: -82.12618  
Road Name: River Rd

County: Pasco  
Site Number: WU017  
LULC: Natural forest  
Land Owner(s): SWFWMD



Crossing Structure: Right Approach



Crossing Structure: DS




Risk Factor	Ranking	Score
US Channel Morph	E	5
DS Channel Morph	E	5
DS Bank Alteration	Natural	5
Upstream Skew Angle	<5°	5
Crossing fill condition	Fair/Rip-rap	3
Inlet/Outlet Condition	No Impairment	5
Potential Eroded Vol.	< 21 c.y.	5
Soil K Factor	≤ 0.20	5
Approach Slope Mean	<2°	5
Road Approach Material	All aggregate	5
Upstream Rt Outlet	Vegetated	1
Upstream Lt Outlet	*NA	1
Upstream Rt Ditch	Vegetated	1
Upstream Lt Ditch	*NA	1
Downstream Rt Outlet	Vegetated	1
Downstream Lt Outlet	*NA	1
Downstream Rt Ditch	Vegetated	1
Downstream Lt Ditch	*NA	1
Improved Outlet Total	4	1
Improved Ditches Total	4	1
<b>SRI Total:</b>		<b>58</b>






## Additional Site Features




Crossing Type and Quantity: Bridge  
Crossing Material: Reinforced Concrete  
Culvert Outfall Drop: 0 in.  
Fish Passage Barrier: Not Present  
Notes: Left approach was paved



Unnamed Tributary			Sediment Risk Index: 52-Low	
Watershed: Withlacoochee River Subwatershed: Lower Little Withlacoochee River Latitude: 28.53447 Longitude: -82.10075 Road Name: Boggey Rd			County: Sumter Site Number: WU018 LULC: Natural forest  Land Owner(s): WITHLACOOCHEE STATE FOREST	
 <p>Crossing Structure: Right Approach</p>			 <p>Crossing Structure: DS</p>	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>		
US Channel Morph	E	5		
DS Channel Morph	E	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	Sediment/Scouring	3		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	Native soil	1		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		<b>Additional Site Features</b>
Upstream Lt Ditch	Vegetated	1		Crossing Type and Quantity: Culvert, 1
Downstream Rt Outlet	Vegetated	1		Crossing Material: Corrugated Metal
Downstream Lt Outlet	Vegetated	1		Culvert Outfall Drop: 0 in.
Downstream Rt Ditch	Vegetated	1		Fish Passage Barrier: Not Present
Downstream Lt Ditch	Vegetated	1		Notes: Concrete pad on top of crossing
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>52</b>		

Unnamed Tributary			Sediment Risk Index: 54-Low	
Watershed: Withlacoochee River Subwatershed: Lower Little Withlacoochee River Latitude: 28.54872 Longitude: -82.11501 Road Name: Boggey Rd			County: Sumter Site Number: WU019 LULC: Natural forest  Land Owner(s): WITHLACOOCHEE STATE FOREST	
 <p>Crossing Structure: Right Approach</p>			 <p>Crossing Structure: DS</p>	
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>		
US Channel Morph	C	5		
DS Channel Morph	C	5		
DS Bank Alteration	Natural	5		
Upstream Skew Angle	<5°	5		
Crossing fill condition	Good/Vegetated	5		
Inlet/Outlet Condition	No Impairment	5		
Potential Eroded Vol.	21-40 c.y.	3		
Soil K Factor	≤ 0.20	5		
Approach Slope Mean	<2°	5		
Road Approach Material	Native soil	1		
Upstream Rt Outlet	Vegetated	1		
Upstream Lt Outlet	Vegetated	1		
Upstream Rt Ditch	Vegetated	1		
Upstream Lt Ditch	Vegetated	1		
Downstream Rt Outlet	Vegetated	1		
Downstream Lt Outlet	Vegetated	1		
Downstream Rt Ditch	Vegetated	1		
Downstream Lt Ditch	Vegetated	1		
Improved Outlet Total	4	1		
Improved Ditches Total	4	1		
<b>SRI Total:</b>		<b>54</b>	<b>Additonal Site Features</b> Crossing Type and Quantity: Culvert, 2 Crossing Material: Corrugated Metal Culvert Outfall Drop: 0 in. Fish Passage Barrier: Not Present Notes:	



Unnamed Tributary			Sediment Risk Index: 42-Moderate
Watershed: Withlacoochee River Subwatershed: Lower Little Withlacoochee River Latitude: 28.54064 Longitude: -82.10728 Road Name: Boggey Rd			County: Sumter Site Number: WU020 LULC: Natural forest  Land Owner(s): WITHLACOOCHEE STATE FOREST
 <p>Crossing Structure: Right Approach</p>			 <p>Ford: DS</p>
<b>Risk Factor</b>	<b>Ranking</b>	<b>Score</b>	
US Channel Morph	E	5	
DS Channel Morph	E	5	
DS Bank Alteration	Natural	5	
Upstream Skew Angle	<5°	5	
Crossing fill condition	Poor, Bare Soil	1	
Inlet/Outlet Condition	No Impairment	5	
Potential Eroded Vol.	21-40 c.y.	3	
Soil K Factor	≤ 0.20	5	
Approach Slope Mean	<2°	5	
Road Approach Material	Native soil	1	
Upstream Rt Outlet	bare soil	0	
Upstream Lt Outlet	bare soil	0	
Upstream Rt Ditch	bare soil	0	
Upstream Lt Ditch	bare soil	0	
Downstream Rt Outlet	bare soil	0	
Downstream Lt Outlet	bare soil	0	
Downstream Rt Ditch	bare soil	0	
Downstream Lt Ditch	bare soil	0	
Improved Outlet Total	0	1	
Improved Ditches Total	0	1	
<b>SRI Total:</b>		<b>42</b>	<b>Additional Site Features</b> Crossing Type and Quantity: Ford Crossing Material: NA Culvert Outfall Drop: NA Fish Passage Barrier: Not Present Notes:

## Appendix E. Riparian buffer land use land cover analysis and statistical prediction of riparian impairment in non-navigable streams and reaches of the Peace River and Withlacoochee River watersheds

### INTRODUCTION

Riparian buffers in river systems provide functional environmental benefits for water quality, aquatic and terrestrial habitats, aquatic connectivity, and bank stability. Riparian habitats have been severely impacted in many watersheds across the United States due to agriculture, urbanization, and deforestation. As a result, there is a need to assess riparian condition and prioritize for restoration. Traditionally, riparian studies were completed by field survey and manual mapping, which is time consuming and costly. Our study utilized geographical information systems (GIS) and land use land cover (LULC) data as a cost-effective alternative.

The Peace River and Withlacoochee River Threats Assessments and Fish Assemblage Monitoring project identified agricultural pastures as the primary land use associated with impaired areas, and thus, it became the focus of our analysis. The objectives of this study were to: (1) determine the amount of pasture, as well as other LULC categories, within riparian buffers in streams of interest; (2) assess the statistical relationship between the amount of agriculture within riparian buffers and level of impairment identified during standard threats assessment surveys; and (3) utilize this statistical relationship to estimate or predict the level of impairment in non-navigable streams and reaches in the Peace River and Withlacoochee River watersheds.

### METHODS

The riparian LULC buffers were analyzed in ArcGIS (ESRI 2014) using the 2010 Cooperative Land Cover v2.3 file geodatabase. In order to streamline the LULC data within the Cooperative Land Cover geodatabase, the 59 codes in the Florida Land Use, Cover and Forms Classification



System (FLDOT 1999) were consolidated into 8 classes including: developed, mining, natural forest, open water, pasture, prairie/scrub, tree crops, and wetland. Assessed streams consisted of all streams greater than 3<sup>rd</sup> order (Strahler method), as well as 2 first order spring runs (Rainbow River and Gum Slough). We developed a model to estimate the LULC within the 100-foot buffer on each side of target streams' shorelines. However, before the model could be effectively run, additional pre-processing steps were required. The need for data refinement was twofold: (1) the United States Geological Survey stream layer data did not follow the centerline of the stream and thus would bias the buffer's results – solution: retrace or repair centerline for streams of interest; and (2) simply buffering the centerline stream data would bias results on larger streams, since it would capture a high percentage of the category “open water” – solution: use a conical shaped buffer tool that follows the shoreline, as best as possible, and use an additional buffer tool for riparian analysis. Conical shaped buffers were only used on streams with an estimated bankfull width greater than 15 feet. LULC was then summarized by stream into the 8 classes listed above.

The Peace River and Withlacoochee River Threats Assessments and Fish Assemblage Monitoring study was limited to the navigable reaches within the watersheds. We utilized the field-gathered data (impairment site length) and riparian LULC to develop a statistical relationship to estimate the degree of impairment of non-navigable streams and reaches. Using a regression analysis, we examined the influence between percent of pasture within the 100-foot riparian buffer and the length of impairment sites per mile for all surveyed streams in the Peace River and Withlacoochee River watersheds. The regression analysis's best fit line equation was then used to extrapolate the predicted length of impairment per mile for non-navigable streams and reaches that were not assessed during the threats assessment. It is important to note that

some streams (e.g., Charlie Creek and Joshua Creek) were navigable in the lower reach, but non-navigable in the upper reach. Therefore, in this situation we utilized traditional threats-assessment methods in the lower reach and applied the predictive model for the entire stream reach.

## RESULTS

### *Peace River Watershed*

The riparian LULC results for the main stem of the Peace River and major tributaries (N = 28) are shown in Figure E1. The dominant LULC for most streams was wetlands, with an average of 74.1% for all streams assessed in the Peace River Watershed. Developed areas comprised a small amount of the riparian LULC, averaging 3.1%. Peace Creek had the highest level of development (10.2%) within the riparian LULC. Pasture lands were the primary LULC of interest due to their negative impacts including streambank erosion, riparian zone degradation, and nonpoint source pollution. Percent pasture ranged from 0 to 28.9% and averaged 7.3% of the LULC in riparian buffers. Peace Creek had the highest percent pasture (28.9%) within the riparian LULC of any stream in the Peace River Watershed. This figure is alarmingly high since, in comparison, the Peace River riparian LULC contained 3.6% pasture and we identified 278 impairment sites (74,454 feet) in the 103.7 miles assessed during the threats-assessment project. Additionally, of the 28 streams assessed for riparian LULC within the Peace River Watershed, 60.7% of the streams had a higher percent pasture than the Peace River. This indicates that many of the non-navigable tributaries have numerous impairments.

Regression analysis determined that percent pasture within the riparian buffer explained 59.9% of the variation in impairment site length per mile for all surveyed streams in the Peace River and Withlacoochee River watersheds ( $R^2 = 0.599$ ,  $SE = 255.5$ ). Percent pasture yielded



the best relationship with impairment site length (i.e., highest  $R^2$  values). Using the regression analysis best fit line equation, we extrapolated or predicted the impairment site length per mile for all target streams (Figure E2). The predicted impairment length per mile generally agreed with visual assessments of riparian imagery and collected or observed data (Figure E2). It should be noted, when comparing predicted and observed data, that entire stream lengths were only surveyed in a few cases (e.g., Peace River, Saddle Creek), due to navigability. Therefore, we only included observed results when a significant portion of the stream was assessed in the field. This was done since land uses often change between the upper and lower reaches of a stream, and inclusion of incomplete data may cause discrepancies between observed and predicted results, which may be misleading.

The average predicted impairment length per mile was 1,046.8 feet for all streams assessed in the Peace River Watershed. The highest impairment site length per mile occurred on Peace Creek (4,008 feet). Peace Creek is a highly agriculturalized stream that has been channelized for much of its length and would benefit greatly from restoration to improve aquatic habitat, floodplain connectivity, and water quality. Old Town Creek was predicted to have no impairment length per mile and review of aerial imagery confirmed satisfactory riparian buffer for most of its length. Therefore, Old Town Creek would not require restoration based on our GIS assessment.

#### *Withlacoochee River Watershed*

The riparian LULC results for the main stem of the Withlacoochee River and major tributaries ( $N = 13$ ) are shown in Figure E3. The dominant LULC for most streams in the Withlacoochee River Watershed was wetlands, with an average of 56.6%. Developed areas comprised a higher value of the riparian LULC in the Withlacoochee River Watershed than in the Peace River

Watershed with an average of 7.9%. The most developed waterbodies were the Withlacoochee River (51.2%) and Rainbow River (34.6%). The high level of development in riparian buffers of Rainbow River has resulted in loss of floodplain connectivity and increased nutrients from fertilizer runoff and septic systems leaks. Percent pasture ranged from 0 to 42.5% and averaged 7.3% for all LULC in riparian buffers, which was very similar to the Peace River Watershed. Mattress Drain had the highest percent pasture (42.5%) within the riparian LULC for all streams assessed.

The same best fit line equation used for the Peace River analysis was applied to the Withlacoochee River Watershed to estimate the degree of impairment for non-navigable streams (Figure E4). The average predicted impairment length per mile was 1,039.4 feet for all streams assessed in the Withlacoochee River Watershed. The highest impairment site length per mile occurred on Mattress Drain (5,869.2 feet). Mattress Drain, similar to Peace Creek, is a highly agriculturalized stream that has been channelized for much of its length. This stream would benefit greatly from restoration to provide functional lift and supply quality water to the Withlacoochee River. Three tributaries (Gum Slough, Jumper Creek, and Little Jones Creek) were predicted to have zero impairment length per mile and review of aerial imagery confirmed the condition of these streams. Similar to the Peace River Watershed, we found predicted results agreed with visual assessments of riparian imagery and observed results (Figure E4). Interestingly, for the main stem of Withlacoochee River, the predicted impairment length (290.0 feet/mile) was much higher than observed (16.8 feet/mile). This inconsistency can be attributed to the fact that Withlacoochee River riparian buffers often contained a band of intact riparian forest between the river and the pastures. Therefore, these locations were not identified as



impairment sites during the threats assessment survey, but did impact the predictive model by containing pasture lands.

## DISCUSSION

The results reported above show the riparian LULC and predicted level of impairment within riparian buffers of non-navigable streams greater than 3<sup>rd</sup> order. This information could be utilized by city, county, state, and federal agencies to locate riparian areas where restoration would be most valuable in order to improve the condition of water quality, riparian habitats, and aquatic habitats. This information could also be used to find areas for mitigation projects. Further, this data could be utilized to identify quality riparian areas that are not in need of restoration, but rather protection from future degradation.

The predicted average level of impairment per mile was high ( $> 1,000$  feet) for both watersheds. Based on these results, we foresee that some streams would require sporadic streambank restoration on outside meander bends with high near-bank shear stress, while others would require large scale restoration of the entire stream channel. For example, streams with a high level of impairment and channelization (e.g., Peace Creek and Mattress Drain) would benefit from large-scale restoration including establishing stable stream meanders, riparian buffers, floodplain connectivity, and cattle fencing. Additionally, highly-impaired streams would benefit from the creation of in-channel and off-channel wetlands to promote water quality and nutrient processing.

This analysis is a valuable resource; however, we must acknowledge associated biases. One limitation of this study, as with many GIS LULC studies, is reliance on map accuracy. In some cases, we identified polygons in the LULC map of known pasture lands that were mis-categorized as wetlands, forested wetlands, etc. However, in principle, if this categorization

error is consistent throughout the entire LULC map, it should impact results equally.

Conversely, if there are large variations in categorization errors from one waterbody to another, it could negatively impact our results. Nonetheless, data accuracy will always impact the results of land use studies. At the onset of the project we investigated using several LULC map options (i.e., USGS National Land Cover Maps, etc.), and the 2010 Cooperative Land Cover map provided the most accurate and recent data available.

## CONCLUSION

This study provides valuable insight into the condition of streams that were not surveyed with the standard threats-assessment methods in the Peace River and Withlacoochee River watersheds. While we do not conclude this methodology could replace the threats assessment field surveys, it could be used to locate and prioritize additional areas for field assessment or restoration. We recommend field-verification of these results before considering selection of restoration sites using this method. Overall, based on our results, many of the non-navigable streams and reaches in both watersheds are degraded and restoration would provide functional lift.

This study utilized the best available LULC data to analyze riparian buffer condition in the Peace River and Withlacoochee River watersheds. Our riparian assessment method eliminated common errors that many riparian studies overlook by correcting centerline locations and using conical buffers to more accurately capture streambank locations. Future studies may consider: (1) assessing the accuracy of the predicted results through field verification; (2) testing different LULC layers or increasing accuracy of current; (3) testing a variety of riparian buffer widths; and (4) assessing the proximity of pasture to stream channel within the 100-foot buffer.



Figure E1. Land use land cover within riparian buffers for assessed streams in the Peace River Watershed.

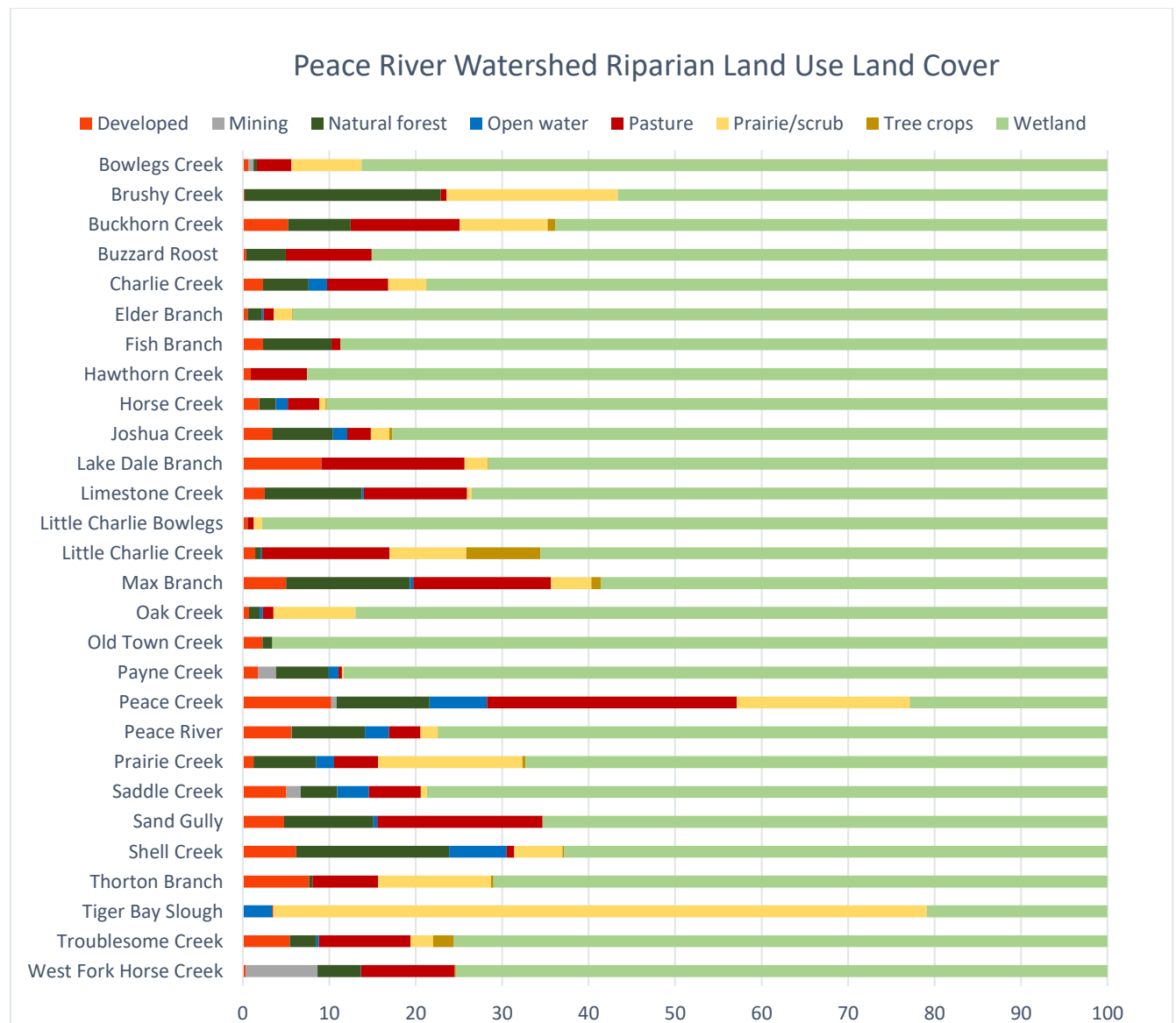


Figure E2. Predicted and observed impairment length per mile for assessed streams in the Peace River Watershed.

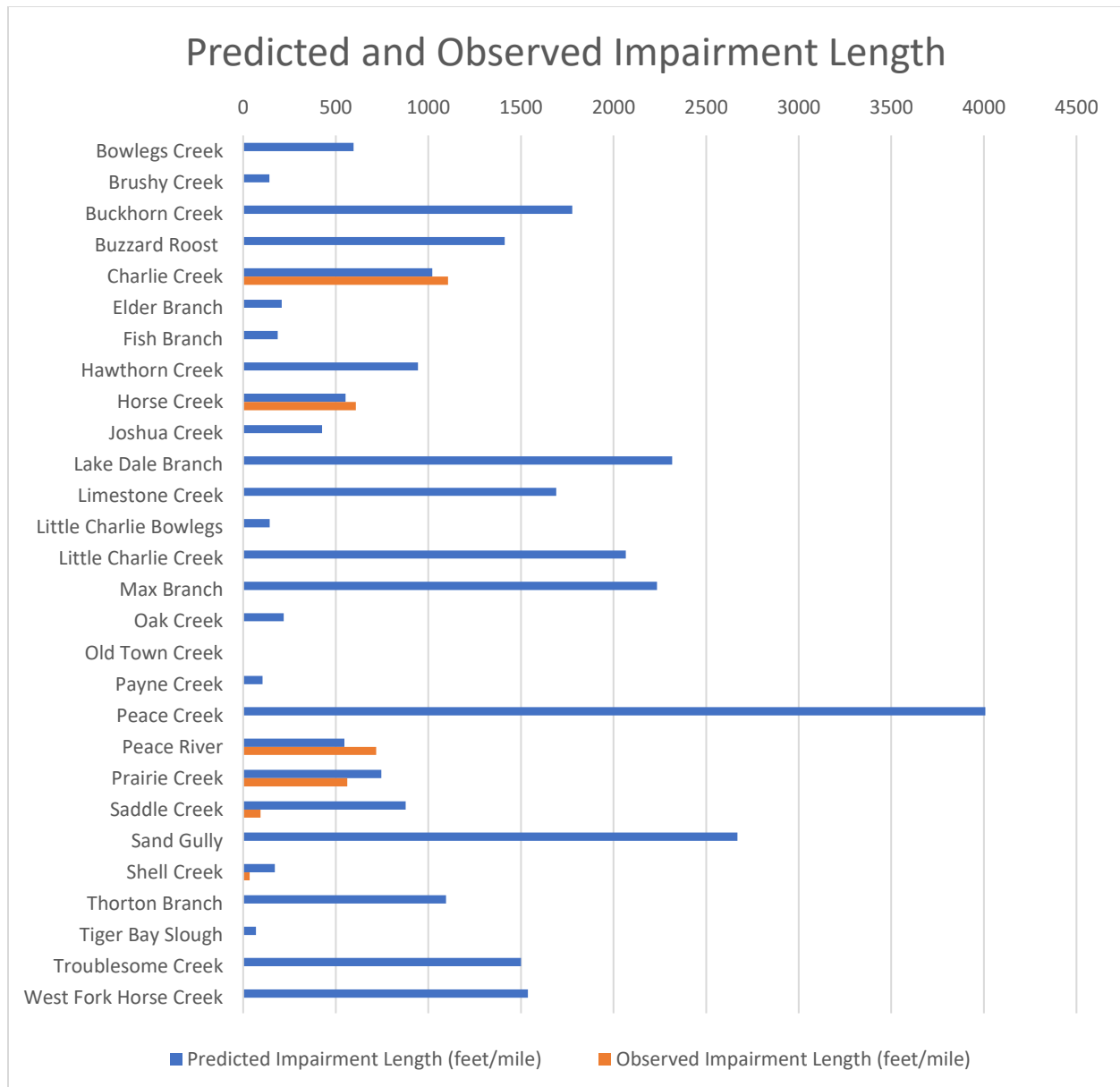




Figure E3. Land use land cover within riparian buffers for assessed streams in the Withlacoochee River Watershed.

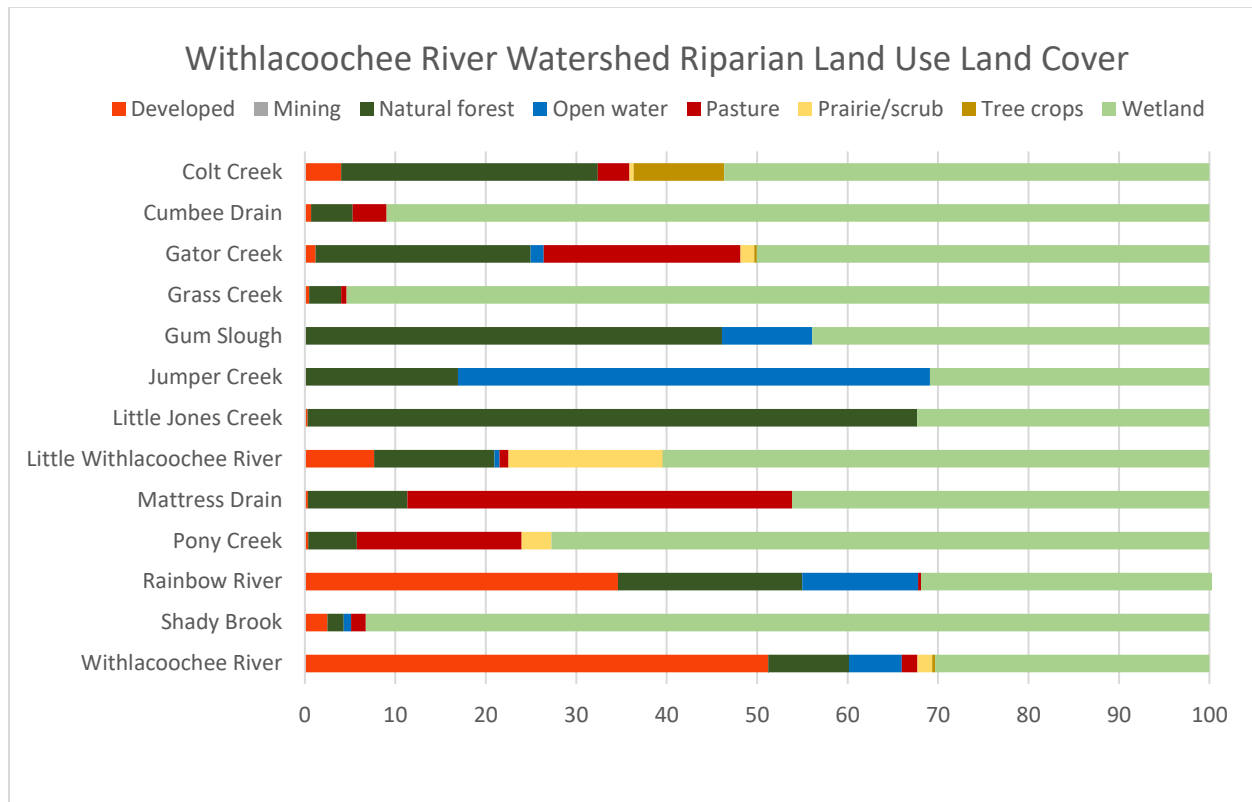


Figure E4. Predicted and observed impairment length per mile for assessed streams in the Withlacoochee River Watershed. Note: observed results were included for Jumper Creek (0 feet/mile), Little Withlacoochee River (0 feet/mile), Rainbow River (0 feet/mile), and Withlacoochee River (16.8 feet/mile).

