

## DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS 10117 PRINCESS PALM AVENUE, SUITE 120 TAMPA, FLORIDA 33610

# August 26, 2016

REPLY TO ATTENTION OF

Regulatory Division West Permits Branch Tampa Section SAJ-2015-02719(JD-JLC)

Locust Branch, LLC c/o J. Michael Gramling 9205 N. Connechusett Road Tampa, FL 33617 mgramling@gramlingandhaya.com

JURISDICTIONAL VERIFICATION

Pasco County Associates III, LLLP c/o Richard Arkin, VP 1600 Sawgrass Corporate Parkway, Suite 400 Sunrise, FL 33323 <u>richard.arkin@glhomes.com</u>

Gentlemen:

Reference is made to information submitted to the U.S. Army Corps of Engineers (Corps) regarding the potential extent of Federal jurisdiction at the project site known as Wiregrass S2/S4, located north of State Road 56 at the terminus of Chancey Road, south of Wesley Chapel Blvd and the Saddlebrook Resort, east of Bruce B. Downs Blvd and the Estancia development, and west of Meadowpointe Blvd and the Countrywalk development, in Section 17, 20 & 21, Township 26 South, Range 20 East, Wesley Chapel, Pasco County, Florida. The evaluation of this jurisdictional determination involved many factors and may have included a field visit, review of aerial photographs, geological quad sheets, county soils maps, and site specific information provided by you. A copy of the approved jurisdictional determination forms and depiction of the geographic extent of Federal jurisdiction are enclosed. A Department of the Army permit may be required for work in areas identified as waters of the United States.

This letter contains an approved jurisdictional determination for your subject site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the South Atlantic Division Office at the following address: If you object to this determination, you may request an administrative appeal under Corps' regulations at 33 CFR Part 331. If you request to appeal this determination, you must submit a completed RFA form to the South Atlantic Division Office at the following address:

Mr. Jason Steele South Atlantic Division U.S. Army Corps of Engineers CESAD-CM-CO-R, Room 9M15 60 Forsyth St., SW. Atlanta, Georgia 30303-8801.

Mr. Steele can be reached by telephone number at 404-562-5137, or by facsimile at 404-562-5138.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division office within 60 days of the date of the RFA. Should you decide to submit an RFA form, it must be received at the above address by **October 24, 2016.** It is not necessary to submit a RFA form to the Division Office if you do not object to the determination in this letter.

The determination shown on the enclosed information represents the upland/wetland boundary for purposes of determining the Corps jurisdictional line. As depicted/described in the attachments, the property encompasses waters of the United States (which are subject to regulation by the Corps) as well as waters which are not subject to regulation by the Corps. Please be advised that the jurisdictional determination shown is based on the Corps of Engineers Wetlands Delineation Manual (1987) and current regional supplement, and is valid for a period no longer than 5 years from the date of this letter unless new information warrants a revision of the determination before the expiration date. If, after the 5-year period, the Corps has not specifically revalidated this jurisdictional determination, it shall automatically expire. Any reliance upon this jurisdictional determination beyond the expiration date may lead to possible violation of current Federal laws and/or regulations. You may request revalidation of the jurisdictional determination prior to the expiration date. Any revalidation or updating will be considered under the method of jurisdictional determination and other applicable regulations in use at the time of the request. Additionally, this determination has been based on information provided by you or your agent; should we determine that the information was incomplete or erroneous this delineation would be invalid.

This determination has been conducted to identify the limits of the Corps Clean Water Act jurisdiction for the particular site identified in this request. This determination

may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

You are cautioned that work performed below the mean high water line or ordinary high water line in waters of the United States and/or the discharge of dredged or fill material into any areas identified on the enclosed information as within Federal jurisdiction without a Department of the Army permit could subject you to enforcement action. Receipt of a permit from the Department of Environmental Protection or the Water Management District does not obviate the requirement for obtaining a Department of the Army permit.

The Corps' Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to visit http://corpsmapu.usace.army.mil/cm\_apex/f?p=regulatory\_survey and complete our automated Customer Service Survey. Your input is appreciated – favorable or otherwise. Please be aware this Internet address is case sensitive and should be entered as it appears above.

Thank you for your cooperation with our permit program. If you have any questions concerning this matter please contact Jessica Cordwell by mail at the letterhead address, by electronic mail at Jessica.L.Cordwell@usace.army.mil, or by telephone at 813-769-7067.

Sincerely,

C.1362394429 Det 2016 Covernment, C.1362394429 Det 2016 Covernment, C.1362394429 Det 2016 Covernment, Det 2016 DET 2016

For: Donald W. Kinard Chief, Regulatory Division Enclosures: NAP/RFA form Approved JD with attachments

Copies furnished: <u>mpalmer@kingengineering.com</u> <u>John.Strawbridge@GLHomes.com</u> <u>Scott@thewiregrassranch.com</u> <u>bskidmore@kingengineering.com</u> <u>nlynn@kingengineering.com</u>

## NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

licant: Locust Branch, LLC/Pasco County	Date: August 26, 2016			
Associates III, LLLP				
Attached is: See Section below				
INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A		
PROFFERED PERMIT (Standard Permit or Letter of permission)		В		
PERMIT DENIAL C		С		
X APPROVED JURISDICTIONAL DETERMINATION		D		
PRELIMINARY JURISDICTIONAL DETERMINATI	ION	E		
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SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <u>http://www.usace.army.mil/CECW/Pages/reg\_materials.aspx</u> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may
  request that the permit be modified accordingly. You must complete Section II of this form and return the form to the
  district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or
  you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will
  evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to
  address some of your objections, or (c) not modify the permit having determined that the permit should be issued as
  previously written. After evaluating your objections, the district engineer will send you a proffered permit for your
  reconsideration, as indicated in Section B below.

## B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days
  of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the
  approved JD.
- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

# SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for
the record of the appeal conference or meeting, and any supplemental information that the review officer has determined
is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses
to the record. However, you may provide additional information to clarify the location of information that is already in the
administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATIO	N:	
If you have questions regarding this decision you may	If you have questions regardir	ng the appeal process you
contact:	may contact:	
	Jason W. Steele	
Project Manager as noted in letter		peals Review Officer
	USACE – South A	
		SW, Room 10M15
	Atlanta, Georgia 3	30303-8801
	(404) 562-5137	
RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government		
consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a		
15 day notice of any site investigation, and will have the opp	ortunity to participate in all site	investigations.
	Date:	Telephone number:
Signature of appellant or agent.		



**Relevant Reaches for Wiregrass S2/S4** 

54)

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4 mi

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### APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers \*\*\*RELEVANT REACH: TROUT CREEK\*\*\*

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

### SECTION I: BACKGROUND INFORMATION

- REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 7/8/16 A.
- DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville, Wiregrass S2/S4, SAJ-2015-02719 (JD-TEH) B.

### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Florida County/parish/borough: Pasco City: Center coordinates of site (lat/long in degree decimal format): Lat. 28.213497° N, Long. 82.322316° W.

Universal Transverse Mercator:

Name of nearest waterbody: Trout Creek

Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: Hillsborough River Name of watershed or Hydrologic Unit Code (HUC): 031002050501 (Trout Creek-Hillsborough River)

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. The project site consists of 5 relevants reaches. A form has been prepared for each.

## D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 6/30/16

### SECTION II: SUMMARY OF FINDINGS

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are and are not "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

### 1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): 1
  - TNWs, including territorial seas
  - Wetlands adjacent to TNWs
  - Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
  - Non-RPWs that flow directly or indirectly into TNWs
    - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
    - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
    - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
    - Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: 31.45 acres.
- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):

### 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Wetlands K10, N9, N10, N11, O9, O10-1, O10-2, O11-1, O11-2, and O14 were found to be non-jurisdictional.

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

### SECTION III: CWA ANALYSIS

### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions: Watershed size: 6,000 acres Drainage area: 600 acres Average annual rainfall: 50 inches Average annual snowfall: 0 inches

### (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☑ Tributary flows directly into TNW.
 ☑ Tributary flows through Pick List tributaries before entering TNW.

Project waters are10-15 river miles from TNW.Project waters are2-5 river miles from RPW.Project waters are5-10 aerial (straight) miles from TNW.Project waters are1-2 aerial (straight) miles from RPW.Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>: Trout Ck (Non-RPW) > Trout Ck (RPW) > Hillsborough River (TNW). Tributary stream order, if known: first.

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b)	General Tributary Characteristics (check all that apply):         Tributary is:       Natural         Artificial (man-made). Explain:         Manipulated (man-altered). Explain: altered in areas.
	Tributary properties with respect to top of bank (estimate): Average width: 10 feet Average depth: 2 feet Average side slopes: 4:1 (or greater).
	Primary tributary substrate composition (check all that apply):         Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover: herb/forested/cover varies         Other. Explain:       .
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: stable. Presence of run/riffle/pool complexes. Explain: none within project area. Tributary geometry: Meandering Tributary gradient (approximate average slope): 1 %
(c)	Flow:         Tributary provides for: Seasonal flow (seasonal within project area)         Estimate average number of flow events in review area/year: 20 (or greater)         Describe flow regime: seasonal.         Other information on duration and volume:         Surface flow is: Discrete. Characteristics:         Subsurface flow: Unknown. Explain findings:         □ Dye (or other) test performed:         Tributary has (check all that apply):         ⊠ Bed and banks         ⊠ OHWM <sup>6</sup> (check all indicators that apply):         □ clear, natural line impressed on the bank         □ clear, natural line impressed on the bank         □ shelving         □ vegetation matted down, bent, or absent         □ shelving         □ vegetation matted down, bent, or absent         □ leaf litter disturbed or washed away         □ sediment deposition         □ water staining
	☐ other (list): ☐ Discontinuous OHWM. <sup>7</sup> Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): <ul> <li>High Tide Line indicated by:</li> <li>Mean High Water Mark indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul>
(iii) Cl	nemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.

### (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 50' bottomland hardwood forest.
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings: Eastern indigo snake, wood stork.
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings: herps, wading birds.

### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: 31.45 acres Wetland type. Explain: forested/herbaceous freshwater wetlands. Wetland quality. Explain: moderate. Project wetlands cross or serve as state boundaries. Explain: no.
- (b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **Intermittent flow**. Explain:

Surface flow is: Discrete Characteristics:

Subsurface flow: Unknown. Explain findings:

- (c) Wetland Adjacency Determination with Non-TNW:
   ☑ Directly abutting (G14)
   ☑ Not directly abutting (K9, K11, M11, N13, N14)
  - Discrete wetland hydrologic connection. Explain: K9 is connected to G14 via ditch.
  - Ecological connection. Explain: Wetlands K9, K11, M11, N13, N14 are reasonabily close to the tributary

### flowing through G14

- Separated by berm/barrier. Explain:
- (d) <u>Proximity (Relationship) to TNW</u> Project wetlands are 10-15 river miles from TNW. Project waters are 2-5 aerial (straight) miles from TNW. Flow is from: <u>Wetland to navigable waters</u>. Estimate approximate location of wetland as within the 20 - 50-year floodplain.

### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

### (iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width): 10'.
- Vegetation type/percent cover. Explain:
- Habitat for:

Federally Listed species. Explain findings: Eastern indigo snake, wood stork.

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- Aquatic/wildlife diversity. Explain findings:herps, wading birds.

### 3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: **30 (or more)** Approximately (>80) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
G14 (Y)	23.50		
K9 (N)	1.05		
K11 (N)	0.25		
M11 (N)	0.18		
N13 (N)	5.55		
N14 (N)	0.87		
OFF-SITE	>50		

Summarize overall biological, chemical and physical functions being performed: Attenuation of stormwater, wildlife foraging and denning, water quality.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

# Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

# Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# The following represents the significant nexus findings for the Trout Creek relevant reach and its adjacent wetlands (Wetlands G14, K9, K11, M11, N13, and N14):

<u>Physical</u>: The wetlands perform important flow maintenance functions including storage of flood waters<sup>1, 2</sup> and a release of these waters into the tributary in a more even and consistent manner<sup>2</sup>. Therefore, the wetlands directly affect the duration, frequency, and volume of flow in the tributary and the downstream navigable water<sup>2</sup>. These wetlands offer the following benefits to downstream aquatic resources: reduction of downstream peak discharge and volume, recharge of aquifers, maintenance of seasonal/baseflows, maintenance of groundwater supplies<sup>1</sup>. In fact, cypress swamps appear to have lower evapotranspiration rates than surrounding ecosystems and may, therefore, provide more recharge to the aquifer<sup>3</sup>.

<u>Chemical</u>: The wetlands improve water quality by removing sediment and nutrients (particularly phosphorous and nitrogen) that would otherwise reach downstream waters and have a negative effect on aquatic resources<sup>1, 2, 3</sup>. In general, almost all organic matter and nutrients from wastewater flows inflows are removed or stored within the substrate of the wetland<sup>1</sup>.

<u>Biological</u>: The wetlands are of utmost importance biologically since the majority of other non-wetland areas in the watershed have been altered for agriculture, residential, or other purposes<sup>1</sup>. These wetlands provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle<sup>1</sup>. The wetlands also maintain a more consistent water temperature in tributaries, which is important to many aquatic species<sup>2</sup>. The wetland, along with the

tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters<sup>2</sup>. These wetlands have a diverse community of benthic invertebrates, a major food source for vertebrates<sup>3</sup>.

<sup>1</sup>The Clean Water Act Jurisdictional Handbook. 2007. Environmental Law Institute, Washington, DC, 77 pp.

<sup>2</sup>Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States & Carabell v. United States. 2007. US Department of the Army and US Environmental Protection Agency. 12 pp.

<sup>3</sup>Ewel, K.C. 1990. Multiple demands on wetlands. Bioscience, 40:660-666.

Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW (see note below). Explain 3. findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL **THAT APPLY):**

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: 1. TNWs: linear feet Wetlands adjacent to TNWs: width (ft). Or. acres. acres.
- 2. RPWs that flow directly or indirectly into TNWs.
  - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
  - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft). acres.

- Other non-wetland waters:
  - Identify type(s) of waters:

#### Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs. 3.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

Tributary waters: **approx. 3,500** linear feet width (ft). (included within acreage for G14) Other non-wetland waters: 0.05 acres. Ditch OSW-L13 connects two jurisdictional wetlands – G14 and L15 Identify type(s) of waters: ditch.

Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. 4.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. 5

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent
and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this
conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: 31.45 acres (Wetlands G14, K9, K11, M11, N13, and N14).

### 7. Impoundments of jurisdictional waters.<sup>9</sup>

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE,
	DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY
	SUCH WATERS (CHECK ALL THAT APPLY): <sup>10</sup>

which are or could be used by interstate or foreign travelers for recreational or other purposes.

from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

which are or could be used for industrial purposes by industries in interstate commerce.

- Interstate isolated waters. Explain:
- Other factors. Explain:

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

### F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.



### SECTION IV: DATA SOURCES.

### A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
- $\boxtimes$ Data sheets prepared/submitted by or on behalf of the applicant/consultant.  $\boxtimes$  Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: 🛛 Aerial (Name & Date): Google Earth 1995- present. or Other (Name & Date): Previous determination(s). File no. and date of response letter: Applicable/supporting case law:

TOTAL

- Applicable/supporting scientific literature:
- Other information (please specify):

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

		Non-Juris	dictional Waters
	ional Waters	ID	Acreage
ID	Acreage	K10	0.70
G14	23.50	N9	0.18
<b>K</b> 9	1.05	N10	2.10
K11	0.25	N11	2.30
11	0.18	09	0.23
3	5.55	010-1	0.34
4	0.87	010-2	0.15
W-L13	0.05	011-1	0.02
TAL	31.45	011-1	0.02
		014	0.09

Wetland K10 is considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

6.14

2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Its proximity to a jurisdictional water is not reasonably close. This wetland is approximately 700 ft from the non-RPW.

### Wetland N9 is considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Its proximity to a jurisdictional water is not reasonably close. This wetland is approximately over 1,000 ft from the non-RPW.

### Wetland N10 is considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Its proximity to a jurisdictional water is not reasonably close. This wetland is approximately 650 ft from the non-RPW.

### Wetland N11 is considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by notable high-palmetto uplands with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW. There is no hydrologic connection to nearby Wetland M11.

2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Its proximity to a jurisdictional water is not reasonably close. This wetland is approximately 500 ft from the non-RPW.

### Wetlands O-9, O10-1, O10-2, O11-1, and O11-2 are considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Their proximity to a jurisdictional water is not reasonably close. This wetlands are over 1,000 ft from the non-RPW.

### Wetland O14 is considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW. This wetland is not hydrologically connected to nearby Wetland N13/N14

2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Its proximity to a jurisdictional water is not reasonably close. This wetland is over 1,000 ft from the non-RPW.

# APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

\*\*\*RELEVANT REACH: UT TROUT CREEK #1\*\*\*

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

### SECTION I: BACKGROUND INFORMATION

- REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 7/8/16 A.
- DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville, Wiregrass S2/S4, SAJ-2015-02719 (JD-TEH) B.

### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Florida County/parish/borough: Pasco City: Center coordinates of site (lat/long in degree decimal format): Lat. 28.213497° N, Long. 82.322316° W.

Universal Transverse Mercator:

Name of nearest waterbody: Trout Creek

Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: Hillsborough River Name of watershed or Hydrologic Unit Code (HUC): 031002050501 (Trout Creek-Hillsborough River)

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

 $\overline{\boxtimes}$ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. The project site consists of 5 relevants reaches. A form has been prepared for each.

## D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 6/30/16

### SECTION II: SUMMARY OF FINDINGS

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are and are not "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

### 1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): 1
  - TNWs, including territorial seas
  - Wetlands adjacent to TNWs
  - Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
  - Non-RPWs that flow directly or indirectly into TNWs
    - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
    - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
    - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
    - Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: 17.94 acres.
- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>
  - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Wetlands M13, N14-1, N14-2, and N14-3 were found to be non-jurisdictional.

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

### SECTION III: CWA ANALYSIS

### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 240 acres Drainage area: 240 acres Average annual rainfall: 50 inches Average annual snowfall: 0 inches

### (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ☑ Tributary flows through 2 tributaries before entering TNW.

Project waters are 10-15 river miles from TNW. Project waters are 2-5 river miles from RPW. Project waters are 5-10 aerial (straight) miles from TNW. Project waters are 1-2 aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>: UT Trout Ck (non-RPW) > Trout Ck (Non-RPW) > Trout Ck (RPW) > Hillsborough River (TNW).

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: first.

(b)	General Tributary Characteristics (check all that apply):         Tributary is:       Natural         Artificial (man-made). Explain:         Manipulated (man-altered). Explain: altered in areas.			
	Tributary properties with respect to top of bank (estimate): Average width: 5 feet Average depth: 2 feet Average side slopes: 4:1 (or greater).			
	Primary tributary substrate composition (check all that apply):          Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover: herb/forested/cover varies         Other. Explain:       .			
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: stable. Presence of run/riffle/pool complexes. Explain: none within project area. Tributary geometry: Meandering Tributary gradient (approximate average slope): 1 %			
(c)	<u>Flow:</u> Tributary provides for: Seasonal flow (seasonal within project area) Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: seasonal. Other information on duration and volume:			
	Surface flow is: Discrete. Characteristics:			
	Tributary has (check all that apply):         Bed and banks         OHWM <sup>6</sup> (check all indicators that apply):         clear, natural line impressed on the bank         changes in the character of soil         shelving         vegetation matted down, bent, or absent         leaf litter disturbed or washed away         sediment deposition         water staining         other (list):         Discontinuous OHWM. <sup>7</sup> Explain:			
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): <ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul>			
Cha	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: clear. ntify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.			

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.

### (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 50' bottomland hardwood forest.
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings: Eastern indigo snake, wood stork.
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings: herps, wading birds.

### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: 17.94 acres Wetland type. Explain: forested/herbaceous freshwater wetlands. Wetland quality. Explain: moderate. Project wetlands cross or serve as state boundaries. Explain: no.
- (b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **Intermittent flow**. Explain:

Surface flow is: Discrete Characteristics:

Subsurface flow: Unknown. Explain findings:

(c) Wetland Adjacency Determination with Non-TNW:

 ∑ Directly abutting (L15, M17)

 ∑ Not directly abutting (J17, L16, M16)

 Discrete wetland hydrologic connection. Explain:

 ∑ Ecological connection. Explain: Wetlands J17, L16, and M16 are reasonabily close to the tributary flowing

through L15.

Separated by berm/barrier. Explain:

 (d) <u>Proximity (Relationship) to TNW</u> Project wetlands are 10-15 river miles from TNW. Project waters are 2-5 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 20 - 50-year floodplain.

### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

### (iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width): 10'.
- Vegetation type/percent cover. Explain:
- Habitat for:

Federally Listed species. Explain findings: Eastern indigo snake, wood stork.

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- Aquatic/wildlife diversity. Explain findings:herps, wading birds.

### 3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 15-20 Approximately (>65) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
L15 (Y)	14.08		
J17 (N)	0.60		
L16 (N)	1.94		
M16 (N)	0.23		
OFFSITE	~50 AC		
M17 (Y)	1.09		

Summarize overall biological, chemical and physical functions being performed: Attenuation of stormwater, wildlife foraging and denning, water quality.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

# Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

# Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# The following represents the significant nexus findings for the UT Trout Creek #1 relevant reach and its adjacent wetlands (Wetlands J17, L15, L16, M17, and M16):

<u>Physical</u>: The wetlands perform important flow maintenance functions including storage of flood waters<sup>1, 2</sup> and a release of these waters into the tributary in a more even and consistent manner<sup>2</sup>. Therefore, the wetlands directly affect the duration, frequency, and volume of flow in the tributary and the downstream navigable water<sup>2</sup>. These wetlands offer the following benefits to downstream aquatic resources: reduction of downstream peak discharge and volume, recharge of aquifers, maintenance of seasonal/baseflows, maintenance of groundwater supplies<sup>1</sup>. In fact, cypress swamps appear to have lower evapotranspiration rates than surrounding ecosystems and may, therefore, provide more recharge to the aquifer<sup>3</sup>.

<u>Chemical</u>: The wetlands improve water quality by removing sediment and nutrients (particularly phosphorous and nitrogen) that would otherwise reach downstream waters and have a negative effect on aquatic resources<sup>1, 2, 3</sup>. In general, almost all organic matter and nutrients from wastewater flows inflows are removed or stored within the substrate of the wetland<sup>1</sup>.

<u>Biological</u>: The wetlands are of utmost importance biologically since the majority of other non-wetland areas in the watershed have been altered for agriculture, residential, or other purposes<sup>1</sup>. These wetlands provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle<sup>1</sup>. The wetlands also maintain a more consistent water temperature in tributaries, which is important to many aquatic species<sup>2</sup>. The wetland, along with the

tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters<sup>2</sup>. These wetlands have a diverse community of benthic invertebrates, a major food source for vertebrates<sup>3</sup>.

<sup>1</sup>The Clean Water Act Jurisdictional Handbook. 2007. Environmental Law Institute, Washington, DC, 77 pp.

<sup>2</sup>Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States & Carabell v. United States. 2007. US Department of the Army and US Environmental Protection Agency. 12 pp.

<sup>3</sup>Ewel, K.C. 1990. Multiple demands on wetlands. Bioscience, 40:660-666.

Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW (see note below). Explain 3. findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL **THAT APPLY):**

- TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: 1. TNWs: linear feet Wetlands adjacent to TNWs: width (ft). Or. acres. acres.
- 2. RPWs that flow directly or indirectly into TNWs.
  - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
  - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

acres.

Tributary waters: linear feet width (ft).

Other non-wetland waters:

Identify type(s) of waters:

#### Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs. 3.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

Tributary waters: **approx. 700** linear feet width (ft). (included within acreage for L15 and M17) Other non-wetland waters: Identify type(s) of waters:

Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. 4.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. 5

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent
and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this
conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: 17.94 acres (Wetlands J17, L15, L16, M17, and M16).

### 7. Impoundments of jurisdictional waters.<sup>9</sup>

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE,
	DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY
	SUCH WATERS (CHECK ALL THAT APPLY): <sup>10</sup>

which are or could be used by interstate or foreign travelers for recreational or other purposes.

from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

which are or could be used for industrial purposes by industries in interstate commerce.

- Interstate isolated waters. Explain:
- Other factors. Explain:

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

### F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based <u>solely</u> on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):

Other: (explain, 11 not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.



### SECTION IV: DATA SOURCES.

### A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
- $\boxtimes$ Data sheets prepared/submitted by or on behalf of the applicant/consultant.  $\boxtimes$  Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: 🛛 Aerial (Name & Date): Google Earth 1995- present. or Other (Name & Date): Previous determination(s). File no. and date of response letter: Applicable/supporting case law:
  - Applicable/supporting scientific literature:
  - Other information (please specify):

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Jurisdictional Waters	
ID	Acreage
J17	0.60
L15	14.08
L16	1.94
M16	0.23
M17	1.09
TOTAL	17.94

Non-Jurisdictional Waters		
ID	Acreage	
M13	0.27	
N14-1	0.07	
N14-2	0.16	
N14-3	0.24	
TOTAL	0.74	

Wetlands M13, N14-1, N14-2, and N14-3 are considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Their proximity to a jurisdictional water is not reasonably close. This wetlands are over 1,000 ft from the non-RPW.

# APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

\*\*\*RELEVANT REACH: UT TROUT CREEK #2\*\*\*

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

### SECTION I: BACKGROUND INFORMATION

- REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 7/8/16 A.
- DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville, Wiregrass S2/S4, SAJ-2015-02719 (JD-TEH) B.

### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Florida County/parish/borough: Pasco City: Center coordinates of site (lat/long in degree decimal format): Lat. 28.213497° N, Long. 82.322316° W.

Universal Transverse Mercator:

Name of nearest waterbody: Trout Creek

Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: Hillsborough River Name of watershed or Hydrologic Unit Code (HUC): 031002050501 (Trout Creek-Hillsborough River)

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

 $\boxtimes$ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. The project site consists of 5 relevants reaches. A form has been prepared for each.

### D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 6/30/16

### SECTION II: SUMMARY OF FINDINGS

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are and are not "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

### 1. Waters of the U.S.

- a. Indicate presence of waters of U.S. in review area (check all that apply): 1
  - TNWs, including territorial seas
  - Wetlands adjacent to TNWs
  - Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs
  - Non-RPWs that flow directly or indirectly into TNWs
    - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
    - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
    - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
    - Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

- b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or acres. Wetlands: 46.43 acres.
- c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):

### 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Wetlands P9, P11, P12, Q11, Q12, Q13, R9, R10, R11, and R12 were found to be non-jurisdictional.

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

### SECTION III: CWA ANALYSIS

### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 400 acres Drainage area: 200 acres Average annual rainfall: 50 inches Average annual snowfall: 0 inches

### (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ☑ Tributary flows through 2 tributaries before entering TNW.

Project waters are 10-15 river miles from TNW. Project waters are 2-5 river miles from RPW. Project waters are 5-10 aerial (straight) miles from TNW. Project waters are 1-2 aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>: UT Trout Ck #2 (non-RPW) > Trout Ck (RPW) > Hillsborough River (TNW). Tributary stream order, if known: first.

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

	(b)	b) <u>General Tributary Characteristics (check all that apply):</u> <b>Tributary</b> is: Xatural Artificial (man-made). Explain: Manipulated (man-altered). Explain: altered in areas.	
		Tributary properties with respect to top of bank (estimate): Average width: 5 feet Average depth: 2 feet Average side slopes: 4:1 (or greater).	
		Primary tributary substrate composition (check all that apply):         Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover: herb/forested/cover varies         Other. Explain:       .	
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: stable. Presence of run/riffle/pool complexes. Explain: none within project area. Tributary geometry: Meandering Tributary gradient (approximate average slope): 1 %	
	(c)	Flow: Tributary provides for: Seasonal flow (seasonal within project area) Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: seasonal. Other information on duration and volume: Surface flow is: Discrete. Characteristics: Subsurface flow: Unknown. Explain findings:	
		□ Dye (or other) test performed:         Tributary has (check all that apply):         ○ Bed and banks         ○ OHWM <sup>6</sup> (check all indicators that apply):         ○ clear, natural line impressed on the bank         □ changes in the character of soil         □ shelving         ○ vegetation matted down, bent, or absent         □ leaf litter disturbed or washed away         □ sediment deposition         □ water staining         □ other (list):         □ Discontinuous OHWM. <sup>7</sup> Explain:	
		If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): <ul> <li>High Tide Line indicated by:</li> <li>Mean High Water Mark indicated by:</li> <li>survey to available datum;</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul>	
(iii)	Che	emical Characteristics:	

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.

### (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 50' bottomland hardwood forest.
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings: Eastern indigo snake, wood stork.
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings: herps, wading birds.

### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: 46.43 acres Wetland type. Explain: forested/herbaceous freshwater wetlands. Wetland quality. Explain: moderate. Project wetlands cross or serve as state boundaries. Explain: no.
- (b) <u>General Flow Relationship with Non-TNW</u>: Flow is: **Intermittent flow**. Explain:

Surface flow is: Discrete Characteristics:

Subsurface flow: Unknown. Explain findings:

- (c) Wetland Adjacency Determination with Non-TNW:
   Directly abutting (P16, N17)
   Not directly abutting (O16, O17, P14, P15, P17-1, P17-2, Q17, R14, R17))
  - Discrete wetland hydrologic connection. Explain: P14 and P15 have ditch connections to P16
  - Ecological connection. Explain: Wetlands O16, O17, P17-1, P17-2, Q17, R14, AND R17 are reasonabily close
- to the tributary flowing through L15.

Separated by berm/barrier. Explain:

### (d) Proximity (Relationship) to TNW

Project wetlands are 10-15 river miles from TNW. Project waters are 2-5 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 20 - 50-year floodplain.

### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

### (iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width): 10'.
- Vegetation type/percent cover. Explain:
- Habitat for:

Federally Listed species. Explain findings: Eastern indigo snake, wood stork.

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- Aquatic/wildlife diversity. Explain findings:herps, wading birds.

### 3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 30 (or more) Approximately (>95) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
N17 (Y)	1.37		
P16 (Y)	23.74		
O16 (N)	0.18		
O17 (N)	1.84		
P14 (N)	10.60		
P15 (N)	3.75		
P16 (N)	23.74		
P17-1 (N)	0.46		
P17-2 (N)	0.59		
Q17 (N)	0.76		
R14 (N)	0.66		
R17 (N)	2.48		
OFFSITE	>50		

Summarize overall biological, chemical and physical functions being performed: Attenuation of stormwater, wildlife foraging and denning, water quality.

### C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

# Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

The following represents the significant nexus findings for the UT Trout Creek #2 relevant reach and its adjacent wetlands (Wetlands N17, O16, O17, P14, P15, P16, P17-1, P17-2, Q17, R14, and R17):

<u>Physical</u>: The wetlands perform important flow maintenance functions including storage of flood waters<sup>1, 2</sup> and a release of these waters into the tributary in a more even and consistent manner<sup>2</sup>. Therefore, the wetlands directly affect the duration, frequency, and volume of flow in the tributary and the downstream navigable water<sup>2</sup>. These wetlands offer the following benefits to downstream aquatic resources: reduction of downstream peak discharge and volume, recharge of aquifers, maintenance of seasonal/baseflows, maintenance of groundwater supplies<sup>1</sup>. In fact, cypress swamps appear to have lower evapotranspiration rates than surrounding ecosystems and may, therefore, provide more recharge to the aquifer<sup>3</sup>.

Chemical: The wetlands improve water quality by removing sediment and nutrients (particularly phosphorous and nitrogen) that

would otherwise reach downstream waters and have a negative effect on aquatic resources<sup>1, 2, 3</sup>. In general, almost all organic matter and nutrients from wastewater flows inflows are removed or stored within the substrate of the wetland<sup>1</sup>.

Biological: The wetlands are of utmost importance biologically since the majority of other non-wetland areas in the watershed have been altered for agriculture, residential, or other purposes<sup>1</sup>. These wetlands provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle<sup>1</sup>. The wetlands also maintain a more consistent water temperature in tributaries, which is important to many aquatic species<sup>2</sup>. The wetland, along with the tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters<sup>2</sup>. These wetlands have a diverse community of benthic invertebrates, a major food source for vertebrates<sup>3</sup>.

<sup>1</sup>The Clean Water Act Jurisdictional Handbook. 2007. Environmental Law Institute, Washington, DC, 77 pp.

<sup>2</sup>Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States & Carabell v. United States. 2007. US Department of the Army and US Environmental Protection Agency. 12 pp.

<sup>3</sup>Ewel, K.C. 1990. Multiple demands on wetlands. Bioscience, 40:660-666.

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW (see note below). Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft), Or, acres. Wetlands adjacent to TNWs: acres.

### 2. RPWs that flow directly or indirectly into TNWs.

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
- Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:
  - Provide estimates for jurisdictional waters in the review area (check all that apply):

acres.

- linear feet width (ft).
- Tributary waters: lin Other non-wetland waters:
  - Identify type(s) of waters:

#### 3 Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.

Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: **approx. 4.600** linear feet width (ft). (included within acreage for P16 and N17) Other non-wetland waters:
  - Identify type(s) of waters:
- Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. 4

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

### 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: 46.43 acres (Wetlands N17, O16, O17, P14, P15, P16, P17-1, P17-2, Q17, R14, and R17).

### 7. Impoundments of jurisdictional waters.<sup>9</sup>

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

### E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):<sup>10</sup>

which are or could be used by interstate or foreign travelers for recreational or other purposes.

from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

which are or could be used for industrial purposes by industries in interstate commerce.

Interstate isolated waters. Explain:

Other factors. Explain:

### Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

.

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

- Identify type(s) of waters:
- Wetlands: acres.

### F. <u>NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):</u>

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers
   Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
   Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based <u>solely</u> on the

"Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above):

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource:
- Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: 16.78 acres (Wetlands P9, P11, P12, Q11, Q12, Q13, R9, R10, R11, and R12).

### SECTION IV: DATA SOURCES.

- A. SUPPORTING DATA. Data reviewed for JD (check all that apply checked items shall be included in case file and, where checked and requested, appropriately reference sources below):
  - Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
  - Data sheets prepared/submitted by or on behalf of the applicant/consultant.
    - Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report.
  - Data sheets prepared by the Corps:
  - Corps navigable waters' study:
  - U.S. Geological Survey Hydrologic Atlas:
  - 🔀 USGS NHD data.
  - $\boxtimes$  USGS 8 and 12 digit HUC maps.
  - U.S. Geological Survey map(s). Cite scale & quad name:
  - USDA Natural Resources Conservation Service Soil Survey. Citation:
  - National wetlands inventory map(s). Cite name:
  - State/Local wetland inventory map(s):
  - FEMA/FIRM maps:
  - 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
  - Photographs: Aerial (Name & Date): Google Earth 1995- present.
    - or 🗌 Other (Name & Date):
  - Previous determination(s). File no. and date of response letter:
  - Applicable/supporting case law: .
  - Applicable/supporting scientific literature:
  - Other information (please specify):

### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

		7	Non
Jurisdicti	onal Waters		
ID	Acreage		P9
N17	1.37		P11
016	0.18		P12
017	1.84		Q11
P14	10.60		012
P15	3.75	1	Q12 Q13
P16	23.74	1	R9
P17-1	0.46	1	R10
P17-2	0.59	1	R10
017	0.76	-	
R14	0.66	-	R12
R17	2.48	1	ΤΟΤ
TOTAL	46.43	-	

Non-Jurisdictional Waters		
ID	Acreage	
P9	0.12	
P11	2.94	
P12	2.95	
Q11	7.14	
Q12	0.47	
Q13	0.19	
R9	1.25	
R10	0.07	
R11	1.58	
R12	0.07	
TOTAL	16.78	

### Wetlands P9, Q12, R9, R10, are R11 are considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Their proximity to a jurisdictional water is not reasonably close. This wetlands are over 1,000 ft from the non-RPW.

### Wetland Q13 is considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Its proximity to a jurisdictional water is not reasonably close. This wetland is approximately 650 ft from the non-RPW.

### Wetland R12 is considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW.

2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Its proximity to a jurisdictional water is not reasonably close. This wetland is approximately 560 ft from the non-RPW.

### Wetlands P11, Q11, and P12 are considered isolated and not adjacent because:

1. There is not an unbroken shallow sub-surface connection to jurisdictional waters. The wetlands are surrounded by uplands with with existing topography (natural berms) that limit nutrient/carbon transport to downstream waters to only peak flow events such as the 100-year storm event. There are no ditches, swales, or even cattle trails that could serve to hydrologically connect the isolated wetland to the downstream non-RPW. They are separated from P14 by an approximately 150 foot width of uplands.

2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like.

3. Their proximity to a jurisdictional water is not reasonably close. This wetlands are over 1,000 ft from the non-RPW.

# APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

\*\*\*RELEVANT REACH: UT TROUT CREEK #3\*\*\*

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

### SECTION I: BACKGROUND INFORMATION

- REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 7/8/16 A.
- DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville, Wiregrass S2/S4, SAJ-2015-02719 (JD-TEH) B.

### C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Florida County/parish/borough: Pasco City: Center coordinates of site (lat/long in degree decimal format): Lat. 28.213497° N, Long. 82.322316° W.

Universal Transverse Mercator:

Name of nearest waterbody: Trout Creek

Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: Hillsborough River Name of watershed or Hydrologic Unit Code (HUC): 031002050501 (Trout Creek-Hillsborough River)

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. The project site consists of 5 relevants reaches. A form has been prepared for each.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 6/30/16

### SECTION II: SUMMARY OF FINDINGS

### A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

### B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
  - a. Indicate presence of waters of U.S. in review area (check all that apply): 1
    - TNWs, including territorial seas
    - Wetlands adjacent to TNWs
    - Relatively permanent waters2 (RPWs) that flow directly or indirectly into TNWs
    - Non-RPWs that flow directly or indirectly into TNWs
      - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      - Impoundments of jurisdictional waters
      - Isolated (interstate or intrastate) waters, including isolated wetlands
  - b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or 3.31 acres. Wetlands: 8.73 acres.
  - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>
  - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

### SECTION III: CWA ANALYSIS

### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 300 acres Drainage area: 100 acres Average annual rainfall: 50 inches Average annual snowfall: 0 inches

### (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ☑ Tributary flows through 3 tributaries before entering TNW.

Project waters are 10-15 river miles from TNW. Project waters are 2-5 river miles from RPW. Project waters are 5-10 aerial (straight) miles from TNW. Project waters are 1-2 aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>: UT Trout Ck #4 (non-RPW) > UT Trout Ck #3 (non-RPW) > Trout Ck (RPW) > Hillsborough River (TNW).

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: first.

(b)	General Tributary Characteristics (check all that apply):         Tributary is:       Natural         Artificial (man-made). Explain:         Manipulated (man-altered). Explain: altered in areas.
	Tributary properties with respect to top of bank (estimate): Average width: 5 feet Average depth: 2 feet Average side slopes: 4:1 (or greater).
	Primary tributary substrate composition (check all that apply):          Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover: herb/forested/cover varies         Other. Explain:       .
	Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: stable. Presence of run/riffle/pool complexes. Explain: none within project area. Tributary geometry: Meandering Tributary gradient (approximate average slope): 1 %
(c)	<u>Flow:</u> Tributary provides for: Seasonal flow (seasonal within project area) Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: seasonal. Other information on duration and volume:
	Surface flow is: Discrete. Characteristics:
	Tributary has (check all that apply):         Bed and banks         OHWM <sup>6</sup> (check all indicators that apply):         clear, natural line impressed on the bank         changes in the character of soil         shelving         vegetation matted down, bent, or absent         leaf litter disturbed or washed away         sediment deposition         water staining         other (list):         Discontinuous OHWM. <sup>7</sup> Explain:
	If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): <ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul>
Cha	emical Characteristics: aracterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: clear. ntify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.

#### (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 50' bottomland hardwood forest.
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings: Eastern indigo snake, wood stork.
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings: herps, wading birds.

#### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: 8.73 acres Wetland type. Explain: forested/herbaceous freshwater wetlands. Wetland quality. Explain: moderate. Project wetlands cross or serve as state boundaries. Explain: no.
- (b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **Intermittent flow**. Explain:

Surface flow is: Discrete Characteristics:

Subsurface flow: Unknown. Explain findings:

- (c) Wetland Adjacency Determination with Non-TNW: ☐ Directly abutting (R18)
  - Not directly abutting (S17, T17, T18, W17-1, W17-2))
- Discrete wetland hydrologic connection. Explain: T18 connected to tributary via SW-T18; T17 connected to tributary via SW-T16; W17-1 and W17-2 connected to tributary via SW-W17
  - Ecological connection. Explain: Wetland S17 is reasonabily close to the tributary flowing through SW-T16.
     Separated by berm/barrier. Explain:
  - (d) Proximity (Relationship) to TNW

Project wetlands are **10-15** river miles from TNW. Project waters are **2-5** aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the **20 - 50-year** floodplain.

#### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

## (iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width): 10'.
- Vegetation type/percent cover. Explain:
- Habitat for:

Federally Listed species. Explain findings: Eastern indigo snake, wood stork.

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- Aquatic/wildlife diversity. Explain findings:herps, wading birds.

# 3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 15-20 Approximately (>32) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
R18 (Y)	2.99		
S17 (N)	1.27		
T17 (N)	1.82		
T18 (N)	0.35		
W17-1 (N)	0.74		
W17-2 (N)	1.56		
OFFSITE	~20		

Summarize overall biological, chemical and physical functions being performed: Attenuation of stormwater, wildlife foraging and denning, water quality.

# C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

# Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

# Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

The following represents the significant nexus findings for the UT Trout Creek #4 relevant reach and its adjacent wetlands (Wetlands R18, S17, T17, T18, W17-1, and W17-2):

<u>Physical</u>: The wetlands perform important flow maintenance functions including storage of flood waters<sup>1, 2</sup> and a release of these waters into the tributary in a more even and consistent manner<sup>2</sup>. Therefore, the wetlands directly affect the duration, frequency, and volume of flow in the tributary and the downstream navigable water<sup>2</sup>. These wetlands offer the following benefits to downstream aquatic resources: reduction of downstream peak discharge and volume, recharge of aquifers, maintenance of seasonal/baseflows, maintenance of groundwater supplies<sup>1</sup>. In fact, cypress swamps appear to have lower evapotranspiration rates than surrounding ecosystems and may, therefore, provide more recharge to the aquifer<sup>3</sup>.

<u>Chemical</u>: The wetlands improve water quality by removing sediment and nutrients (particularly phosphorous and nitrogen) that would otherwise reach downstream waters and have a negative effect on aquatic resources<sup>1, 2, 3</sup>. In general, almost all organic matter and nutrients from wastewater flows inflows are removed or stored within the substrate of the wetland<sup>1</sup>.

<u>Biological</u>: The wetlands are of utmost importance biologically since the majority of other non-wetland areas in the watershed have been altered for agriculture, residential, or other purposes<sup>1</sup>. These wetlands provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle<sup>1</sup>. The wetlands also maintain a

more consistent water temperature in tributaries, which is important to many aquatic species<sup>2</sup>. The wetland, along with the tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters<sup>2</sup>. These wetlands have a diverse community of benthic invertebrates, a major food source for vertebrates<sup>3</sup>.

<sup>1</sup>The Clean Water Act Jurisdictional Handbook. 2007. Environmental Law Institute, Washington, DC, 77 pp.

<sup>2</sup>Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States & Carabell v. United States. 2007. US Department of the Army and US Environmental Protection Agency. 12 pp.

<sup>3</sup>Ewel, K.C. 1990. Multiple demands on wetlands. Bioscience, 40:660-666.

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW (see note below). Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
   TNWs: linear feet width (ft), Or, acres.
   Wetlands adjacent to TNWs: acres.
- 2. RPWs that flow directly or indirectly into TNWs.
  - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
  - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

acres.

- Tributary waters: linear feet width (ft).
- Other non-wetland waters:
  - Identify type(s) of waters:

# 3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.
- Provide estimates for jurisdictional waters within the review area (check all that apply):
  - Tributary waters: approx. 1,500 linear feet width (ft). (included within acreage for SW-T16)
     Other non-wetland waters: 3.31 ac (SW-R18, SW-T18, and SW-W17)

Identify type(s) of waters: ditches connecting jurisdictional wetlands

# 4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

- Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
- Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent
and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this
conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

## 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: 8.73 acres (Wetlands R18, S17, T17, T18, W17-1, and W17-2).

# 7. Impoundments of jurisdictional waters.<sup>9</sup>

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE,
	DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY
	SUCH WATERS (CHECK ALL THAT APPLY): <sup>10</sup>

which are or could be used by interstate or foreign travelers for recreational or other purposes.

from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

which are or could be used for industrial purposes by industries in interstate commerce.

- Interstate isolated waters. Explain:
- Other factors. Explain:

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

#### F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in *"SWANCC*," the review area would have been regulated based <u>solely</u> on the *"Migratory Bird Rule"* (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.



Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres

# SECTION IV: DATA SOURCES.

## A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
- $\boxtimes$ Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Google Earth 1995- present. or Other (Name & Date): Previous determination(s). File no. and date of response letter: . Applicable/supporting case law:
  - Applicable/supporting scientific literature:
  - Other information (please specify):

#### **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Jurisdictional Waters	
ID	Acreage
R18	2.99
S17	1.27
T17	1.82
T18	0.35
W17-1	0.74
W17-2	1.56
SW-R18	0.10
SW-T16	2.51
SW-T18	0.12
SW-W17	0.58
TOTAL	12.04

Non-Jurisdictional Waters		
ID	Acreage	
NONE		
TOTAL	0	

# APPROVED JURISDICTIONAL DETERMINATION FORM **U.S. Army Corps of Engineers**

\*\*\*RELEVANT REACH: UT CLAY GULLEY\*\*\*

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

#### SECTION I: BACKGROUND INFORMATION

- REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 7/8/16 A.
- DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville, Wiregrass S2/S4, SAJ-2015-02719 (JD-TEH) B.

# C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Florida County/parish/borough: Pasco City: Center coordinates of site (lat/long in degree decimal format): Lat. 28.213497° N, Long. 82.322316° W.

Universal Transverse Mercator:

Name of nearest waterbody: Clay Gulley

Name of nearest Traditional Navigable Water (TNW) Into which the aquatic resource flows: Hillsborough River Name of watershed or Hydrologic Unit Code (HUC): 031002050501 (Trout Creek-Hillsborough River)

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. The project site consists of 5 relevants reaches. A form has been prepared for each.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 6/30/16

## SECTION II: SUMMARY OF FINDINGS

## A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain:

# B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

- 1. Waters of the U.S.
  - a. Indicate presence of waters of U.S. in review area (check all that apply): 1
    - TNWs, including territorial seas
    - Wetlands adjacent to TNWs
    - Relatively permanent waters2 (RPWs) that flow directly or indirectly into TNWs
    - Non-RPWs that flow directly or indirectly into TNWs
      - Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
      - Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
      - Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
      - Impoundments of jurisdictional waters
      - Isolated (interstate or intrastate) waters, including isolated wetlands
  - b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: linear feet: width (ft) and/or 3.31 acres. Wetlands: 4.36 acres.
  - c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual Elevation of established OHWM (if known):
- 2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>
  - Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

<sup>&</sup>lt;sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>&</sup>lt;sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

#### SECTION III: CWA ANALYSIS

## A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW:

Summarize rationale supporting determination:

#### 2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

# B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

 (i) General Area Conditions: Watershed size: 2,817 acres Drainage area: 100 acres Average annual rainfall: 50 inches Average annual snowfall: 0 inches

# (ii) Physical Characteristics:

(a) <u>Relationship with TNW:</u>
 ☐ Tributary flows directly into TNW.
 ☑ Tributary flows through 4 tributaries before entering TNW.

Project waters are 5-10 river miles from TNW. Project waters are 2-5 river miles from RPW. Project waters are 5-10 aerial (straight) miles from TNW. Project waters are 2-5 aerial (straight) miles from RPW. Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW<sup>5</sup>: UT Clay Gulley (non-RPW) > Clay Gulley (RPW) > Hillsborough River (TNW). Tributary stream order, if known: third.

<sup>&</sup>lt;sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

<sup>&</sup>lt;sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary properties with respect to top of bank (estimate):         Average with: 5 feet         Average with: 5 feet         Average side slopes: 11 (or greater).         Primary tributary substrate composition (check all that apply):         Bills       Sands         Coherete         Cobbies       Concrete         Primary condition/tability (e.g., highly eroding, sloughing banks]. Explain: stable.         Presence of minifile/pool complexes. Explain: none within project area.         Tributary provides for: Seasonal flow (seasonal within project area)         Describe flow regime: seasonal.         Other information on duration and volume:         Surface flow is: Dicereret.       Characteristics:	(b)	General Tributary Characteristics (check all that apply):         Tributary is:       Natural         Artificial (man-made). Explain:       .         Manipulated (man-altered). Explain: altered in areas.
Bits       Stads       Concrete         Cobbes       Gravel       Muck         Cobbes       Vegetation. Type% cover: herb/forested/cover varies         Other. Explain:       Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: stable.         Presence of run/riffle/pool complexes. Explain:: none within project area.       Tributary gonation (approximate average slope): 1 %         (c)       Flow:       Tributary gonation (approximate average slope): 1 %         (c)       Flow:       Tributary gonation (seasonal flow (seasonal within project area)         Estimate average number of flow events in review area/year: 2-5       Describe flow regime: seasonal.         Other information on duration and volume:       Surface flow: Unknown. Explain findings:         Dyc (or other) test performed:       Tributary denotes         Tributary denotes       Other informatice or soil         Bed and banks       destruction of terrestrial vegetation         Dyc (or other) test performed:       the presence of litter and debris         Bed and banks       destruction of terrestrial vegetation         Dyc (or other) test performed:       the presence of wack line         Subsurface flow:       sediment down, bent, or absect         Sediment deposition       sediment sorting         Sediment deposition       sediment sorting      <		Average width: 5 feet Average depth: 2 feet
Presence of run/rifle/pool complexes. Explain: none within project area. Tributary gradient (approximate average slope): 1 % (c) Elow: Tributary provides for: Seasonal flow (seasonal within project area) Estimate average number of flow events in review area/year: 2.5 Describe flow regime: seasonal. Other information on duration and volume: Surface flow is: Discrete. Characteristics: Subsurface flow: Unknown. Explain findings: Dye (or other) test performed: Tributary has (check all that apply): Bed and banks Other information matted down, bent, or absent changes in the character of soil beliving Vegetation matted down, bent, or absent leaf litter disturbed or washed away scour scour dimensional beliving water staining Discontinuous OHWM.? Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Discontinuous OHWM.? Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): Discontinuous OHWM.? Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): Discontinuous OHWM.? Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): Discontinuous OHWM.? Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): Discontinuous OHWM.? Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): Discontinuous OHWM.? Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): Discontinuous OHWM.? Explain: If data gauges Discontinuous OHWM.? Discontinuou		Silts       Sands       Concrete         Cobbles       Gravel       Muck         Bedrock       Vegetation. Type/% cover: herb/forested/cover varies
Tributary provides for: Seasonal flow (seasonal within project area)         Estimate average number of flow events in review area/year: 2.5         Describe flow regime: seasonal.         Other information on duration and volume:         Surface flow is: Discrete. Characteristics:         Subsurface flow: Unknown. Explain findings:         Dye (or other) test performed:         Tributary has (check all that apply):         Bed and banks         OHWM <sup>6</sup> (check all indicators that apply):         Bed changes in the character of soil         changes in the character of soil         shelving         belowing         clear, natural line impressed on the bank         changes in the character of soil         shelving         sediment deposition         water staining         bestortionuous OHWM. <sup>7</sup> Explain:         If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):         High Tide Line indicated by:         oil or scum line along shore objects         oil or scum line along shore objects         physical markings/characteristics         ustration lines/changes in vegetation types.		Presence of run/riffle/pool complexes. Explain: none within project area. Tributary geometry: Meandering
<ul> <li>□ other (list):</li> <li>□ Discontinuous OHWM.<sup>7</sup> Explain:</li> <li>If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):</li> <li>□ High Tide Line indicated by:</li> <li>□ oil or scum line along shore objects</li> <li>□ oil or scum line along shore objects</li> <li>□ fine shell or debris deposits (foreshore)</li> <li>□ physical markings/characteristics</li> <li>□ tidal gauges</li> </ul>	(c)	Tributary provides for: Seasonal flow (seasonal within project area)         Estimate average number of flow events in review area/year: 2-5         Describe flow regime: seasonal.         Other information on duration and volume:         Surface flow is: Discrete. Characteristics:         Subsurface flow: Unknown. Explain findings:         Dye (or other) test performed:         Tributary has (check all that apply):         Bed and banks         OHWM <sup>6</sup> (check all indicators that apply):         Changes in the character of soil         shelving         vegetation matted down, bent, or absent         leaf litter disturbed or washed away         sediment deposition
<ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>Mean High Water Mark indicated by:</li> <li>survey to available datum;</li> <li>physical markings;</li> <li>vegetation lines/changes in vegetation types.</li> </ul>		<ul> <li>water staining</li> <li>abrupt change in plant community</li> <li>other (list):</li> </ul>
(iii) Chemical Characteristics:		<ul> <li>High Tide Line indicated by:</li> <li>oil or scum line along shore objects</li> <li>fine shell or debris deposits (foreshore)</li> <li>physical markings/characteristics</li> <li>tidal gauges</li> <li>other (list):</li> </ul>

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

<sup>&</sup>lt;sup>6</sup>A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. <sup>7</sup>Ibid.

#### (iv) Biological Characteristics. Channel supports (check all that apply):

- Riparian corridor. Characteristics (type, average width): 50' bottomland hardwood forest.
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings: Eastern indigo snake, wood stork.
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings: herps, wading birds.

#### 2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

#### (i) Physical Characteristics:

- (a) <u>General Wetland Characteristics:</u> Properties: Wetland size: 4.36 acres Wetland type. Explain: forested/herbaceous freshwater wetlands. Wetland quality. Explain: moderate. Project wetlands cross or serve as state boundaries. Explain: no.
- (b) <u>General Flow Relationship with Non-TNW:</u> Flow is: **Intermittent flow**. Explain:

Surface flow is: Discrete Characteristics:

Subsurface flow: Unknown. Explain findings:

- (c) Wetland Adjacency Determination with Non-TNW:
   ☑ Directly abutting (Z18-1, Z18-2)
   ☑ Not directly abutting (AA16, AA18))
   ☑ Discrete wetland hydrologic connection. Explain:
  - Ecological connection. Explain: Wetlands AA16 and AA18 are reasonabily close to the tributary flowing

# through Z18.

Separated by berm/barrier. Explain:

 (d) <u>Proximity (Relationship) to TNW</u> Project wetlands are 10-15 river miles from TNW. Project waters are 2-5 aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 20 - 50-year floodplain.

#### (ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: clear.

Identify specific pollutants, if known: likely impacted by animal waste due to cattle grazing.

#### (iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width): 10'.
- Vegetation type/percent cover. Explain:
- Habitat for:

Federally Listed species. Explain findings: Eastern indigo snake, wood stork.

- Fish/spawn areas. Explain findings:
- Other environmentally-sensitive species. Explain findings:
- Aquatic/wildlife diversity. Explain findings:herps, wading birds.

#### 3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 15-20 Approximately ( >200 ) acres in total are being considered in the cumulative analysis. For each wetland, specify the following:

Directly abuts? (Y/N)	Size (in acres)	Directly abuts? (Y/N)	Size (in acres)
Z18-1 (Y)	1.64		
Z18-2 (Y)	1.13		
AA16 (N)	1.41		
AA18 (N)	0.18		
OFFSITE	~200		

Summarize overall biological, chemical and physical functions being performed: Attenuation of stormwater, wildlife foraging and denning, water quality.

## C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

# Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

# Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# The following represents the significant nexus findings for the UT Clay Gulley relevant reach and its adjacent wetlands (Wetlands Z18-1, Z18-2, AA16, and AA18):

<u>Physical</u>: The wetlands perform important flow maintenance functions including storage of flood waters<sup>1, 2</sup> and a release of these waters into the tributary in a more even and consistent manner<sup>2</sup>. Therefore, the wetlands directly affect the duration, frequency, and volume of flow in the tributary and the downstream navigable water<sup>2</sup>. These wetlands offer the following benefits to downstream aquatic resources: reduction of downstream peak discharge and volume, recharge of aquifers, maintenance of seasonal/baseflows, maintenance of groundwater supplies<sup>1</sup>. In fact, cypress swamps appear to have lower evapotranspiration rates than surrounding ecosystems and may, therefore, provide more recharge to the aquifer<sup>3</sup>.

<u>Chemical</u>: The wetlands improve water quality by removing sediment and nutrients (particularly phosphorous and nitrogen) that would otherwise reach downstream waters and have a negative effect on aquatic resources<sup>1, 2, 3</sup>. In general, almost all organic matter and nutrients from wastewater flows inflows are removed or stored within the substrate of the wetland<sup>1</sup>.

<u>Biological</u>: The wetlands are of utmost importance biologically since the majority of other non-wetland areas in the watershed have been altered for agriculture, residential, or other purposes<sup>1</sup>. These wetlands provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle<sup>1</sup>. The wetlands also maintain a more consistent water temperature in tributaries, which is important to many aquatic species<sup>2</sup>. The wetland, along with the tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in

traditional navigable waters<sup>2</sup>. These wetlands have a diverse community of benthic invertebrates, a major food source for vertebrates<sup>3</sup>.

<sup>1</sup>The Clean Water Act Jurisdictional Handbook. 2007. Environmental Law Institute, Washington, DC, 77 pp.

<sup>2</sup>Clean Water Act Jurisdiction Following the U.S. Supreme Court's Decision in Rapanos v. United States & Carabell v. United States. 2007. US Department of the Army and US Environmental Protection Agency. 12 pp.

<sup>3</sup>Ewel, K.C. 1990. Multiple demands on wetlands. Bioscience, 40:660-666.

3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW (see note below). Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

# D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

- 1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: linear feet width (ft). Or. acres. Wetlands adjacent to TNWs: acres.
- RPWs that flow directly or indirectly into TNWs.
  - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
  - Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

- 3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.
  - Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: **approx. 400** linear feet width (ft). (included within acreage for Z18-2) Other non-wetland waters: Identify type(s) of waters:
- Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. 4.

Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.

Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. 5.

Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent
and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this
conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

## 6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: 4.36 acres (Wetlands Z18-1, Z18-2, AA16, and AA18).

# 7. Impoundments of jurisdictional waters.<sup>9</sup>

- As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.
- Demonstrate that impoundment was created from "waters of the U.S.," or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

E.	ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE,
	DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY
	SUCH WATERS (CHECK ALL THAT APPLY): <sup>10</sup>

which are or could be used by interstate or foreign travelers for recreational or other purposes.

from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

which are or could be used for industrial purposes by industries in interstate commerce.

- Interstate isolated waters. Explain:
- Other factors. Explain:

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

## F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in *"SWANCC*," the review area would have been regulated based <u>solely</u> on the *"Migratory Bird Rule"* (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

<sup>&</sup>lt;sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

<sup>&</sup>lt;sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA *Memorandum Regarding CWA Act Jurisdiction Following Rapanos*.



Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres

# SECTION IV: DATA SOURCES.

## A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
- $\boxtimes$ Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name: State/Local wetland inventory map(s): FEMA/FIRM maps: 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Google Earth 1995- present. or Other (Name & Date): Previous determination(s). File no. and date of response letter: . Applicable/supporting case law:
  - Applicable/supporting scientific literature:
    - Other information (please specify):

## **B. ADDITIONAL COMMENTS TO SUPPORT JD:**

Jurisdictional Waters	
ID	Acreage
Z18-1	1.64
Z-18-2	1.13
AA16	1.41
AA18	0.18
TOTAL	4.36

Non-Jurisdictional Waters		
ID	Acreage	
NONE		
TOTAL	0	

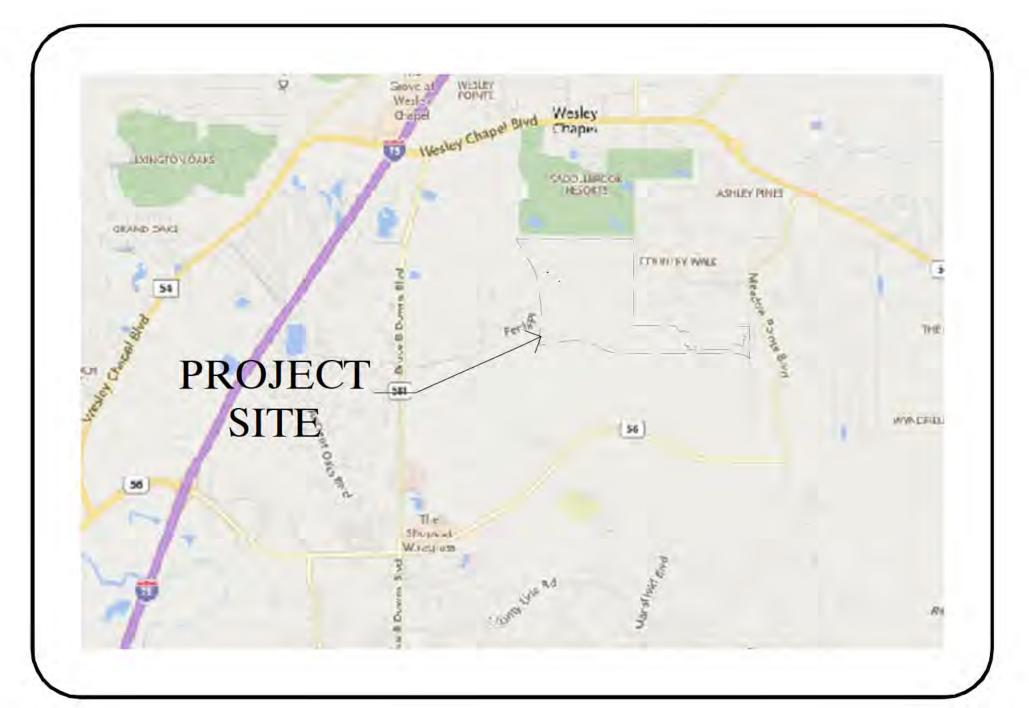
# ACREAGE SUMMARY

Jurisdictional Waters		
ID	Acreage	
G14	23.50	
J17	0.60	
K9	1.05	
K11	0.25	
L15	14.08	
L16	1.94	
M11	0.18	
M16	0.23	
M17	1.09	
N13	5.55	
N14	0.87	
N17	1.37	
016	0.18	
017	1.84	
P14	10.60	
P15	3.75	
P16	23.74	
P17-1	0.46	
P17-2	0.59	
Q17	0.76	
R14	0.66	
R17	2.48	
R18	2.99	
S17	1.27	
T17	1.82	
T18	0.35	
W17-1	0.74	
W17-2	1.56	
Z18-1	1.64	
Z-18-2	1.13	
AA16	1.41	
AA18	0.18	
SW-L13	0.05	
SW-R18	0.10	
SW-T16 SW-T18	2.51	
SW-T18	0.12	
SW-W17	0.58	
TOTAL	112.22	

Non-Jurisdic	Non-Jurisdictional Waters	
ID	Acreage	
K10	0.70	
M13	0.27	
N9	0.18	
N10	2.10	
N11	2.30	
N14-1	0.07	
N14-2	0.16	
N14-3	0.24	
09	0.23	
O10-1	0.34	
O10-2	0.15	
011-1	0.02	
011-2	0.03	
O14	0.09	
P9	0.12	
P11	2.94	
P12	2.95	
Q11	7.14	
Q12	0.47	
Q13	0.19	
R9	1.25	
R10	0.07	
R11	1.58	
R12	0.07	
TOTAL	23.66	

# WIREGRASS PARCEL S2/S4 **CONCEPTUAL PERMIT PLANS**

SECTION 17, 20, 21, TOWNSHIP 26S S, RANGE 20E E PASCO COUNTY, FLORIDA



LOCUST BRANCH, LLC P.O. BOX 290069 TAMPA, FL 33687



Planning | Transportation | Ecological | Land Development | Water | Solid Waste | Surveying Tampa, FL | Austin, TX | Miami, FL | Sarasota, FL

# LOCATION MAP

FOR:

BY:



PARCEL ID#'s 17-26-20-0000-00100-0030 17-26-20-0000-00100-0000 20-26-20-0000-00100-0S20 20-26-20-0000-00100-0000 21-26-20-0000-00100-0000 21-26-20-0000-00100-0050 21-26-20-0000-00100-0040

SWFWMD SUBMITTAL	SUBMITTAL				
MD		Sheet List Table			
SWFW	ACOE	SHEET NUMBER	SHEET TITLE		
*	*	C1.01	COVER		
*	*	C1.05	OVERALL SITE PLAN		
*	*	C2.00	CONSTRUCTION POLLUTION PREVENTION PLA		
*	*	C3.01	MASTER ENVIRONMENTAL PLAN		
*	*	C3.02	MASTER ENVIRONMENTAL PLAN		
*	*	C4.01	MASTER DRAINAGE PLAN		
*	*	C4.02	MASTER DRAINAGE PLAN		
*	*	C5.01	MITIGATION PLAN		
*	*	C5.02	MITIGATION PLAN		
*	*	C5.03	MITIGATION NOTES AND DETAILS		
*	*	C9.01	TYPICAL POND SECTIONS		
*	*	C10.01	01 STORMWATER DETAILS		

# LEGAL DESCRIPTION

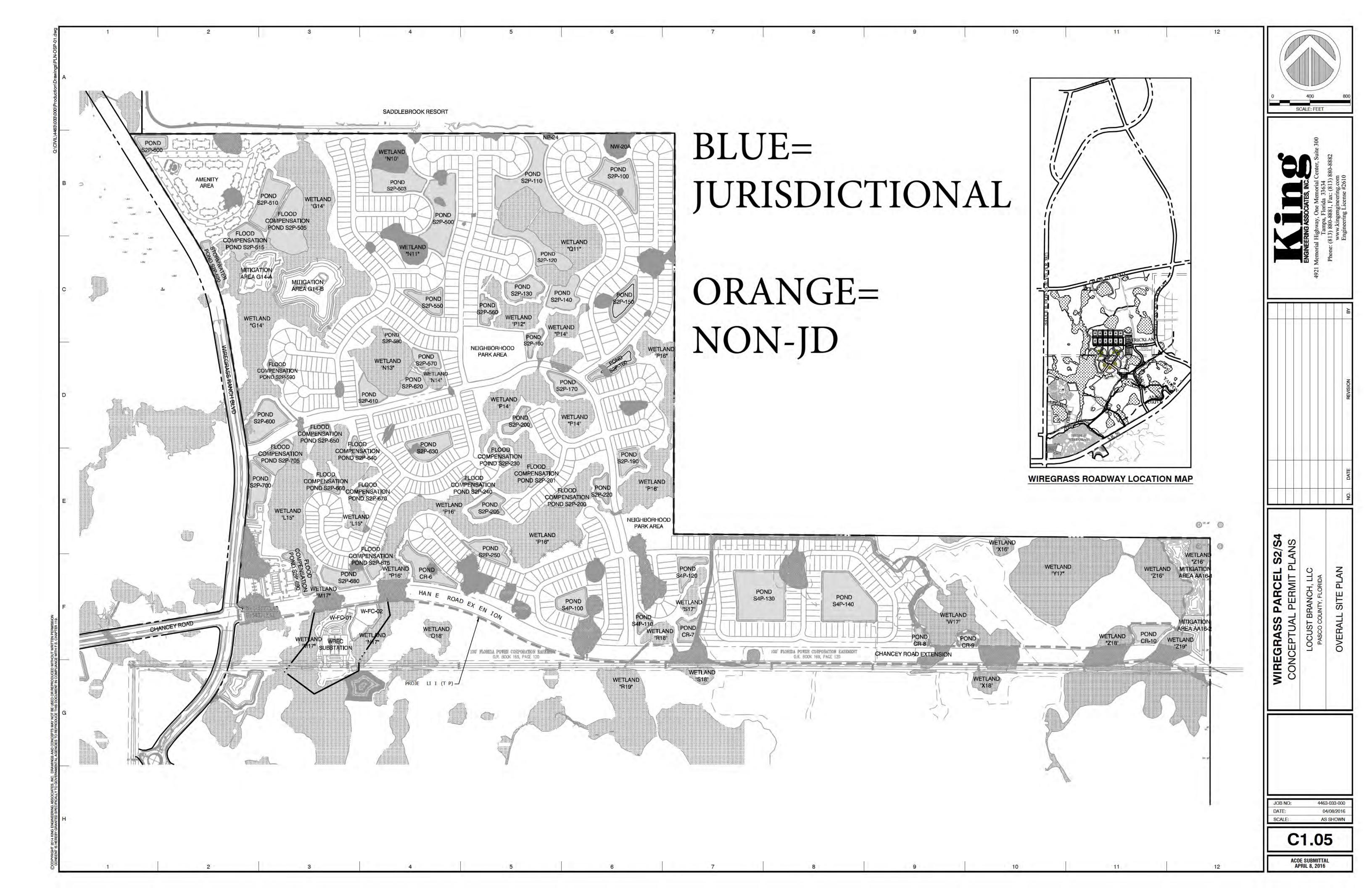
A PORTION OF SECTIONS 17 & 20, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF SECTION 17, TOWNSHIP 26 SOUTH, RANGE 20 EAST, FLORIDA; THENCE ALONG THE EAST LINE OF SAID SECTION 17, SOO"09'30"W, A DISTANCE OF 1,324.63 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ALONG SAID EAST LINE OF SECTION 17, SOO"09'55"W, A DISTANCE OF 3,972.39 FEET TO THE SOUTHEAST CORNER OF SECTION 17; THENCE ALONG THE EAST LINE OF SECTION 20, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, SOO"26'15"W, A DISTANCE OF 38.82 FEET TO NORTHERLY RIGHT-OF-WAY LINE OF PROPOSED CHANCEY ROAD AND THE POINT OF CURVATURE OF A NON TANGENT CURVE; THENCE ALONG SAID NORTHERLY RIGHT-OF-WAY, THE FOLLOWING THREE (3) COURSES; WESTERLY ALONG THE ARC OF SAID NON-TANGENT CURVE TO THE LEFT, HAVING A RADIUS OF 3,070.00 FEE AN ARC LENGTH OF 289.11 FEET, A CENTRAL ANGLE OF 05"23"44", AND A CHORD BEARING AND DISTANCE OF S83\*21'33"W, 289.00 FEET; (2) S80\*39'41"W, A DISTANCE OF 4.033.42 FEET TO A POINT OF CURVATURE: NORTHWESTERLY ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 50.00 FEET, LENGTH OF 91.63 FEET, A CENTRAL ANGLE OF 105'00'00", AND A CHORD BEARING N46"50'19"W, 79.34 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF PROPOSED THENCE ALONG SAID EASTERLY RIGHT-OF-WAY, THE FOLLOWING FIVE (5) COURSES; (1) N05'39'41"E, OF 1,040.23 FEET TO A POINT OF CURVATURE; (2) NORTHERLY ALONG THE ARC OF A CURVE HAVING A RADIUS OF 2,170.00 FEET, AN ARC LENGTH OF 565.59 FEET, A CENTRAL ANGLE OF 14°56 CHORD BEARING AND DISTANCE OF NO1\*48'19"W, 563.99 FEET; (3) NO9"16'19"W, A DISTANCE OF 1,197.44 FEET TO A POINT OF CURVATURE: (4) NORTHERLY ALONG THE ARC OF A CURVE TO THE LEFT. 2 170 00 FEFT AN ARC LENGTH OF 861 39 FEFT & CENTRAL ANGLE OF 22"44'38" AND & CHORD N20"38"38"W 855.75 FFFT: (5) N32"D0'57"W A DISTANCE OF 343.00 FFFT: DISTANCE OF 1,235.69 FEET: THENCE NO1"21'00"W. A DISTANCE OF 34.15 FEET: A DISTANCE OF 18.29 FEET; THENCE N10'07'36"E, A DISTANCE OF 47.77 FEET; THENCE N15'01'14"W, A DISTANCE OF 37.26 FEET; THENCE NO016'25"W, A DISTANCE OF 34.10 FEET; THENCE N28"14'49"W, A DISTANCE OF 48.81 FEET; THENCE N35"23"51"W, A DISTANCE OF 35.73 FEET; THENCE N42"01"17"W, A DISTANCE OF 74.66 FEET; THENCE S53"29'29"W, A DISTANCE OF 3.88 FEET; THENCE N67"22'47"W, A DISTANCE OF 56.94 FEET; IHENC N66'07'39"W, A DISTANCE OF 43.71 FEET; THENCE N61'50'08"W, A DISTANCE OF 36.84 FEET; THENCE N8410'42"W, A DISTANCE OF 46.39 FEET; THENCE S66'03'28"W, A DISTANCE OF 43.33 FEET; THENCE S70"44'48"W, A DISTANCE OF 50.36 FEET; THENCE N28"D6"22"W, A DISTANCE OF 18.09 FEET; THENCE N2614'40"E, A DISTANCE OF 55.86 FEET; THENCE N46'01'59"E, A DISTANCE OF 51.53 FEET; THENCE N07"56'04"W, A DISTANCE OF 51.58 FEET; THENCE N88"45'05"E, A DISTANCE OF 27.00 FEET; THENCE N49"32'44"E, A DISTANCE OF 37.70 FEET; THENCE N24"21'42"E, A DISTANCE OF 40.47 FEET; THENCE N70'30'07"E, A DISTANCE OF 30.27 FEET; THENCE N66"4'45"E, A DISTANCE OF 33.96 FEET; THENCE N41°18'54"E, A DISTANCE OF 43.25 FEET; THENCE N81°19'08"E, A DISTANCE OF 29.73 FEET; THENCE S76°54'12"E, A DISTANCE OF 43.86 FEET; THENCE N27\*45'10"E, A DISTANCE OF 52.04 FEET; THENCE N18\*00'53"W, A DISTANCE OF 45.22 FEET; THENCE N25"30'52"W, A DISTANCE OF 22.26 FEET; THENCE N84"40'35"E, A DISTANCE OF 60.61 FEET; THENCE N11"10'34"E, A DISTANCE OF 16.14 FEET; THENCE N81"20'00"W, A DISTANCE OF 73.87 FEET; THENCE N27"24'42"W, A DISTANCE OF 49.58 FEET; THENCE N89"54'52"E, A DISTANCE OF 3,787.37 FEET TO THE POINT OF BEGINNING.

CONTAINING 428.30 ACRES

Permit Type	Permit No.	Status	
A.C.O.E.			
S.W.F.W.M.D.	Č		

ATE	REVISION	BY	ACOE SUBMITTAL APRIL 8, 2016
			C1.01
			SCALE: AS SHOWN
-			DATE: 04/08/2016
			JOB NO: 4463-033-000



01.dwg	1 2 3 4	5 6 7 8	9 10 11 12
N-CPPP-0	SITE DESCRIPTION	TIMING OF CONTROL MEASURES	SPILL CONTROL PRACTICES
roduction\Drawings\PLI	PROJECT NAME: WIREGRASS PARCEL \$2/\$4DEVELOPER: LOCUST BRANCH, LLCLATITUDE:N 28° 13' 11.8" LONGITUDE:DEVELOPER'S ADDRESS: P.O. BOX 290069 TAMPA, FL 33687	AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT BARRIERS, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY GRASS AND MULCH WITHIN 5 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SOD. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL BE REMOVED.	IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND
33(000/P	DESCRIPTION OF NATURE OF CONSTRUCTION ACTIVITY	CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS	MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
Q:\CIVIL\4463\0	CONSTRUCTION OF A SINGLE FAMILY RESIDENTIAL DEVELOPMENT. COMPONENTS INCLUDE INTERNAL ROADWAYS, WETLAND MITIGATION AREAS, STORMWATER MANAGEMENT FACILITIES, PARKING, WATER & SANITARY SEWER UTILITIES, AND STORM WATER UTILITIES. SOIL DISTURBING ACTIVITIES INCLUDE: INSTALLING STABILIZED CONSTRUCTION ENTRANCES, CONSTRUCTION OF EROSION AND SEDIMENT CONTROLS, CLEARING AND GRUBBING, GRADING, AND CONSTRUCTION OF STORM SEWER. PROJECT AREA CONTAINS ±428.3 AC.	THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT'S (SWFWMD) REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL, AS ESTABLISHED BY THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 40D-4 AND 40D-40. TO ENSURE COMPLIANCE, THIS PLAN WAS PREPARED IN ACCORDANCE WITH SWFWMD'S "BASIS OF REVIEW FOR SURFACE WATER MANAGEMENT PERMIT APPLICATIONS WITHIN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT." THIS PLAN ALSO REFLECTS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR WORK IN BRANCH 6.	ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREAS WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO
в	SEQUENCE OF MAJOR ACTIVITIES:	MAINTENANCE INSPECTION PROCEDURES	CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO
	<ol> <li>PRIOR TO THE COMMENCEMENT OF CLEARING, GRUBBING, AND DEMOLITION, THE SITE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES CALLED FOR ON THE PLANS.</li> </ol>	EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES	THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON-SITE.
	2. UPON INSTALLATION OF THE EROSION CONTROL DEVICES, THE SITE CONTRACTOR MAY BEGIN SITE CLEARING, DEMOLITION, EARTHWORK, DRAINAGE, UTILITY AND ROADWAY CONSTRUCTION ACTIVITIES WITHIN THE CONSTRUCTION LIMITS. THE SITE CONTRACTOR SHALL STABILIZE ALL AREAS DISTURBED WITHIN FIVE DAYS OF THE COMPLETION OF GRADING ACTIVITIES OF THE DISTURBED AREA.	THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL.	NOTICE OF INTENT (NOI) / NOTICE OF TERMINATION (NOT)
	3. THE SITE CONTRACTOR SHALL MAINTAIN THE EXISTING STORMWATER SYSTEM UNTIL THE PROPOSED SYSTEM HAS BEEN RE-ROUTED. ONCE THE PROPOSED SYSTEM IS IN PLACE, THE CONTRACTOR MAY BEGIN THE REMOVAL OF THE EXISTING STORMWATER PIPES AS INDICATED ON THE	ALL CONTROL MEASURES IN DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 0.25 INCHES OR GREATER BY A CONTRACTORS REPRESENTATIVE. (WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.) ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS	• THIS NOTICE OF INTENT (NOI) FORM IS TO BE COMPLETED AND SUBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
	<ul> <li>CONSTRUCTION DOCUMENTS.</li> <li>4. THE SITE CONTRACTOR SHALL REMOVE ALL EROSION PROTECTION DEVICES WITHIN EACH CONTRIBUTING AREA FOLLOWING PERMANENT STABILIZATION OF ALL DISTURBED AREAS.</li> </ul>	NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SILT FENCE WILL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB. TEMPORARY AND PERMANENT GRASSING, MULCHING AND SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN	<ul> <li>THIS NOTICE OF INTENT (NOI) FORM IS TO BE COMPLETED AND SOBMITTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) BEFORE USE OF THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES PROVIDED IN SUBSECTION 62-621.300(4), F.A.C.</li> <li>A NOTICE OF TERMINATION WILL BE SUBMITTED TO EPA AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.</li> </ul>
с	NAME OF RECEIVING WATERS: TROUT CREEK WATERHSED & CLAY GULLY	ACTIVE LOG READILY AVAILABLE AT THE JOB SITE CONSTRUCTION TRAILER. THE SITE SUPERINTENDENT WILL SELECT INDIVIDUALS WHO WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES. FILLING OUT THE INSPECTION AND MAINTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.	POLLUTION PREVENTION PLAN CERTIFICATION
	CONTROLS	NON-STORM WATER DISCHARGES	I CERTIFY UNDER PENALTY OF LAW THAT THESE CONSTRUCTION PLANS, THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM, AS SHOWN ON THESE CONSTRUCTION PLANS, DESIGNED TO ASSURE THAT
	EROSION AND SEDIMENT CONTROLS	THE EVERATED THAT THE FOLLOWING NON CTORN WATER DISCURDED WITH OCCUP FROM THE OUTE DURING THE CONSTRUCTION REPLACE	APPROPRIATE POLLUTION PREVENTION MEASURES ARE IMPLEMENTED DURING CONSTRUCTION AND TO ASSURE THAT THE QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY
	STABILIZATION PRACTICES	IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD: WATER FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATER LINE FLUSHING, WATER USED TO SPRAY OFF LOOSE SOILS FROM VEHICLES, DUST CONTROL, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.	KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.
D	WIND EROSION STABILIZATION: THE CONTRACTOR SHALL DENUDE ONLY AREAS WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN A TWO (2) WEEK TIME-FRAME. FINAL GRADES SHALL BE PERFORMED AND TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS, OR AS NEEDED TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF-SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.	GROUNDWATER DEWATERING ACTIVITIES ARE NOT COVERED BY THIS PERMIT. THE CONTRACTOR MUST APPLY FOR COVERAGE UNDER THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO 62-621.300 (2), F.A.C.	DEVELOPER:
	TEMPORARY STABILIZATION: TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY GRASS AND MULCH NO LATER THAN 5 DAYS FROM THE LAST CONSTRUCTION ACTIVITY. GRASS SEED SHALL BE A MIXTURE OF 20 PARTS OF BERMUDA SEED AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SEED	INVENTORY FOR POLLUTION PREVENTION PLAN	
	USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY, CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR BAHIA GRASS HAY. ONLY UNDETERIORATED MULCH WHICH CAN BE READILY CUT INTO THE SOIL SHALL BE USED. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND BASE.	THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED, BUT NOT LIMITED, TO BE PRESENT ON-SITE DURING CONSTRUCTION: CONCRETE DETERGENTS DETERGENTS	SIGNED:
	<u>PERMANENT STABILIZATION</u> : DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD NO LATER THAN 5 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.	PAINTS (ENAMEL AND LATEX) METAL STUDS GLASS TAR	COMPANY:
	STRUCTURAL PRACTICES	SAND FERTILIZERS PETROLEUM BASED PRODUCTS AND FUELS CLEANING SOLVENTS WOOD	ADDRESS:
Е	STAKED SILT FENCES: THE STAKED SILT FENCES WILL BE CONSTRUCTED ALONG THE PERIMETER AS PREVIOUSLY EXPLAINED. THESE DEVICES WILL STOP AND DIVERT RUNOFF TO THE SEDIMENT BASINS.	MASONRY BLOCK ROOFING SHINGLES STONE	
	SEDIMENT BASINS: THE STORM WATER MANAGEMENT AREAS WILL ACT AS SEDIMENT BASINS DURING CONSTRUCTION. THE SEDIMENT BASINS WILL BE CONSTRUCTED TO THE DESIGN CROSS-SECTION, OR A MINIMUM OF 2' BELOW EXISTING GROUND AT THE CONTRACTORS DISCRETION TO ALLOW SILTS TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.	SPILL PREVENTION	DATE:
	STORM WATER MANAGEMENT	MATERIAL MANAGEMENT PRACTICES	<b>S</b>
	STORM WATER MANAGEMENT STORM WATER DRAINAGE WILL BE PROVIDED BY A CURB, SWALE, STORM SEWER, OR CATCH BASIN SYSTEM FOR THE DEVELOPED AREAS. SWALES	THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.	
-	TO BE SODDED AND INCLUDE CHECK DAMS AND RIPRAP TO CONTROL RUNOFF VELOCITY AND TRANSPORT OF SEDIMENT. WHEN CONSTRUCTION IS COMPLETE THE IMPROVED PORTION OF THE SITE WILL DRAIN TO STORM WATER PONDS. THE PONDS WILL BE IN THE LOCATION OF THE TEMPORARY SEDIMENT BASINS. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASINS. THE PONDS HAVE BEEN DESIGNED BY A PROFESSIONAL ENGINEER TO LIMIT PEAK FLOW RATES FROM THE DESIGN STORM EVENT AT OR BELOW PRE-DEVELOPMENT RATES, AND CONSTRUCTION PER DETAILS SHOWN IN THE PLANS IS IMPERATIVE.	GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IS POSSIBLE, UNDER A POOP OF OTHER CONTAINED ENCLOSURE, PRODUCTS	ANCH, LI Y, FLORIDA N POLL
RISSION 7 119.	OTHER CONTROLS	NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY	
WRITTEN PERM TH F.S. CHAPTER	WASTE DISPOSAL	TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE. HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.	I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORM WATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.
COMPLIANCE WI	WASTE MATERIALS: ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL AGENCIES REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTERS. THE DUMPSTERS WILL BE EMPTIED A MINIMUM OF ONCE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO A REGISTERED LANDFILL FOR DISPOSAL. NO CONSTRUCTION MATERIALS WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE	PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.	SIGNATURE     FOR     RESPONSIBLE FOR     DIA     DIA     DIA     DIA
O OR REPRIC	PRACTICES WILL BE POSTED IN THE ON-SITE OFFICE TRAILER AND THE CONSTRUCTION MANGER RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. <u>HAZARDOUS WASTE:</u> ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE	THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE: PETROLEUM PRODUCTS:	COMPANY: COMPANY: NAME:
DE THIS DO	REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.	ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.	TITLE:     TITLE:
PTS MAY N	SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.	FERTILIZERS:	DATE: DATE:
IS AND CONCE AGENCIES TO	OFFSITE VEHICLE TRACKING	FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.	COMPANY:     COMPANY:       NAME:     NAME:   TEMPORARY AND PERMANENT STABILIZATION
GOVERNMENTA	STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPAULIN AT ALL TIMES.	PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.	TITLE:     TITLE:       DATE:     DATE:
ASSOCIATE SIFICALLY TO		CONCRETE TRUCKS: CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON	COMPANY: COMPANY: JOB NO: 4463-033-
INTED SPEC		COMPLETION OF THE PROJECT.	NAME:     NAME:     STABILIZED CONSTRUCTION ENTRANCE, EARTH     DATE:     04/08/20       TITLE:     TITLE:     TITLE:     STABILIZED CONSTRUCTION ENTRANCE, EARTH     STABILIZED CONSTRUCTION ENTRANCE, EARTH     DATE:     04/08/20
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