REGULATORY UPDATES

Russell Kaiser

Chief, Regulatory Division

912-652-5047



June 1, 2011

Regulatory Highlights

- STRATEGIC HUMAN CAPITAL PLAN
- AVATAR & WHAT IS RIGHT?
 - Jurisdiction
 - Permits
 - Mitigation/Mitigation Banking
- PROPOSED NWP PROCESS
- MITIGATION UPDATES
- OTHER OUTREACH INITIATIVES





Mission

- Is to implement the delegated Department of the Army regulatory authorities provided under Section 10 of the Rivers and Harbors Act, Section 404 of the Clean Water Act and Section 103 of the Ocean Dumping Act.
- Is to protect the nation's aquatic resources, while allowing reasonable development through fair and balanced permit decisions in accordance with federal laws and regulations.



Draft Strategic Human Capital Plan

Strategic Human Capital Plan

- Baseline
 - **Existing Conditions**
 - Workload/Budget
 - Workforce
 - **Staff Diversity Competencies**
- Workload Development
 - **Hiring Processes**
 - Recruitment
 - Retention



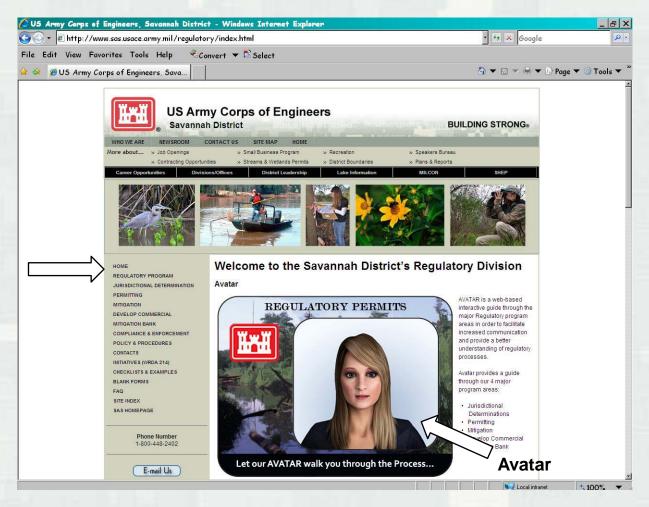
STRATEGIC HUMAN CAPITAL MANAGEMENT PLANS

Workforce Development Program





Website – A New Look



http://www.sas.usace.army.mil/index.html





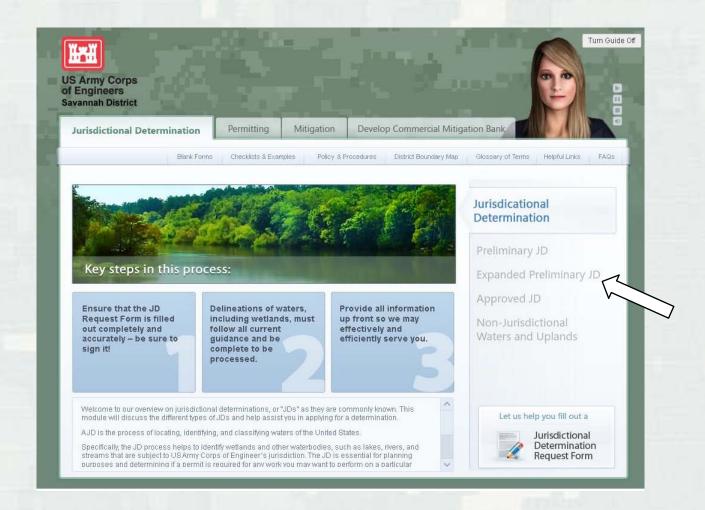
Avatar



Choose topic and then select "Learn More"

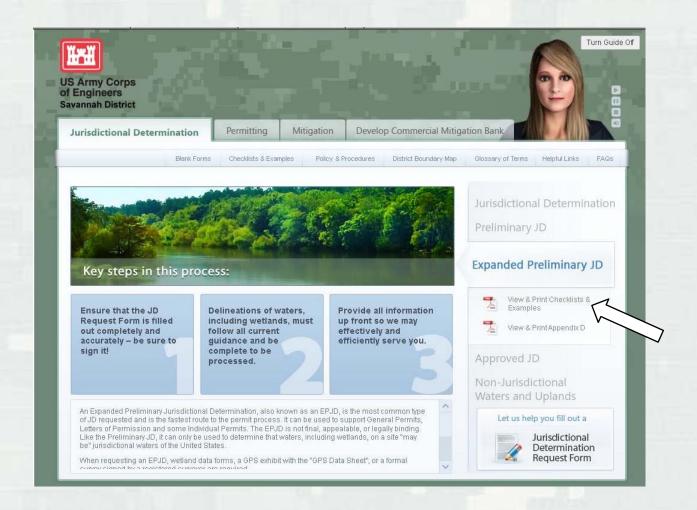


Avatar





Avatar





Expanded Preliminary Jurisdictional Determination (EPJD) Checklist US Army Corps of Engineers Savannah District

This checklist is to assist you in submitting complete and proper information. Please keep in mind that this is not an exhaustive list. Each project has unique components and more or less information may be required by the project manager to complete the EPID on any given project. However, this its contains information typically necessary for this office to issue an EPID. We appreciate you cooperation in providing this information at the time of your request. Failure to provide this information may delay our response to you.

- Written request indicating an EPJD on the two page form, "REQUEST FOR JURISDICTIONAL
 DETERMINATION FOR PROPERTY LOCATED WITHIN THE STATE OF GEORGIA" available at:
 http://www.ss.usace.army.mil/regulatory/JDs.html. The form must be filled out completely and include all
 contact information and written permission (signature) from the property owner or the owner's legal
 representative for USACE personnel to access the property.
 - a. ___Name, address, and phone number of applicant, current property owner(s), and agent/consultant (if applicable).
 - b. Location of property or review area (road names, cross streets, nearest town, etc).
 c. Directions to the property or review area from the nearest interstate highway. Also include a
 - MapQuest, Google, or other map with directions.

 d. ____Coordinates of center of property or review area in decimal degrees (xx.xxxx*N, -xx.xxxx*W
 - format). Linear projects should also include decimal degrees location of the start and end of the review/project area.
 - Size of property or review area in acres.
 - f. Name of nearest named waterbody (stream/river/lake) to which the property or review area is hydrologically connected, closest TNW, name and number of drainage basin (if the property is connected to an unnamed tributary, then specify the nearest named waterbody, e.g. unnamed tributary to Wilmington River).
- Completed EPJD form (Appendix D) for all waters including wetlands that may be jurisdictional
 waters on-site available at: http://www.sasusace.emmy.mil/regulatory/documents/PrelimAppendixD.pdf.
 The first three pages must be filled out in their entirety, the fourth page only if applicable.
- Complete the EPJD form (Appendix E) for any on-site water or wetland you believe to be nonjurisdictional or isolated, available at: http://www.sas.usace.army.mil/regulatory/documents/PrelimAppendixE.pdf. The first page must be filled out in it's entirety, the second page only if applicable.
- Project name. The name of the subdivision or project (e.g. Lakeview Subdivision, Wally World expansion).
- 5. ___ Past Actions including JDs, Permits, etc with the Corps Action ID number.
- 6. Property record(s) for the property or review area.
- Photographs should be representative of the site and may include pictures of the wetlands, soils, tributaries, etc... on the site. Photographs will help in determining the need for a site visit.

Revised Date: 1/28/11

- Data forms of both upland and wetland data points for each wetland type; supplements available at: http://www.usacc.armv.mil/CECW/Pages/reg_supp.aspx.
 All data points shall include distinct decimal degrees location of the point taken.
- 9. Brief narrative description of each water and wetland including type and function of each.
- 10. Size of waters of the US. Total area of each wetland and open water on site. Total linear feet of each on site tributary. Name each water (i.e. Wetland A, Tributary A, Wetland 1, Stream 1, Open Water 1...). GPS exhibits or surveys should not title waters as jurisdictional or non-jurisdictional. For projects with multiple distinct crossings, submit and electronic copy in Excel format of the Waters Upload Sheet available at: http://www.sas.usea.emy.mil/reguladro/JDs.html.
- 11. Survey in accordance with the requirements available at: http://www.sas.usec.army.mi/regulatory/IDs.html. For a GPS exhibit, provide an excel table that includes decimal degrees and a flag numbers for each flag location of each aquatic resource on-site.
- Maps which must include: scale, north arrow, title block with date, property name, drawing number/preparer, revision dates, roads and waterway names and project/property boundaries.
 - Vicinity/Location Map including exact location of the property or review area. It should include the nearest intersection of two state highways or other identifiable reference points. A USGS quadrangle map and/or street atlast is preferred.
 - Map of Wetlands and Other Waters, show all on-site ditches. Include data points taken, referencing a specific data form, and location of photographs taken including direction of each representative photograph.
 - c. Soils Map available at: http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm.
 d. Aerial Map with property or review area limits and wetland/waters sketch including date of
 - d. ___Aerial Map with property or review area limits and wetland/waters sketch including date photo, available at: http://earth.google.com/.
 - USGS Topographic Map including quadrangle name and date, available at: http://store.usgs.gov/b2c_usgs/b2c/start/(xcm=r3standardpitrex_prd)/.do.
 - Flood Plain Map, available at: http://msc.fema.gov.
 - g. National Wetlands Inventory (NWI) Map, available at: http://www.fws.gov/wetlands/Data/Mapper.html.
 - Infra-red maps (optional).
 - Engineering Surveys, e.g. two foot or less topographic map of the site (optional).
 - LIDAR is highly recommended where available and eases the review of a project including: desktop verification requests, re-verification requests and determining whether a site visit is necessary.

Questions can be directed to the following: Coastal Branch: Kim Garvey at (912) 652-5133 or <u>Kimberly, L. Garvey@usace.army.mil</u> Piedmont Branch: Alan Miller at (678) 422-2729 or Alan, Miller@usace.army.mil

Revised Date: 1/28/11

EPJD Checklist



REQUEST FOR JURISDICTIONAL DETERMINATION FOR PROPERTY LOCATED WITHIN THE STATE OF GEORGIA

APPLICANT:	
Name (First Last) Joe T. Public	
Address 123 Main Street	
City Savannah S	tate GA Zip Code 31410
Phone (912) 555 - 1234 Fax (912) 555 - 5678 Emai	joetpublic@email.com
PROPERTY OWNER:	Same as Applicant ✓
Name (First Last)	
Address	
CityS	tate GA Zip Code
Phone () Fax () Emai	I
AGENT/CONSULTANT: (if applicable)	
Name (First Last) John Consultant	
Address P.O. Box 1234	
City Savannah Si	tate GA Zip Code 31410
Phone (912) 555 _ 8888 Fax (912) 555 _ 9999 Emai	john@consulting.com
PROPERTY LOCATION:	
Location/Address/Subdivision 123 Lake Street / Riverview	Subdivision
City (in/near) Savannah County	Chatham
Directions from nearest interstate (use additional sheet(s) if no	eeded)
From downtown Savannah, take I-16 West. From I-16. South toward Brunswick/Jacksonville. Take exit 94 to Road. Site is approximately 5 miles down Fort Argyle I	merge onto GA-204 W/Fort Argyle
Latitude 32 , 1234 Longitude -8	
(In decimal degrees at center of the site. Linear projects should the start, end, and any turn points of the review/project area. Us	
Property Size (acres and/or dimensions) 52 acres	
Nearest named waterbody (Stream/River/Lake) Ogeochoo F	River
10/15/2010	Page 1 of 2

TYPE OF JURISDICTIONAL DETERMINATION:

Please indicate the type of jurisdictional determination (JD) you are requesting by marking the appropriate type below. The Corps encourages the regulated public to utilize the preliminary JDs and expanded preliminary JDs where appropriate.

Preliminary Jurisdictional Determination - Preliminary JDs are non-binding "written indications that there may be waters of the United States, including wetlands, on a parcel or indications of the approximate location(s) of waters of the United States or wetlands on a parcel. Preliminary JDs are advisory in nature and may not be appealed." (See 33 C.F.R. 331.2.)

Examaded Preliminary Jurisdictional Determination - The intent of using the expanded preliminary Jurisdictional Determination - The intent of using the expanded preliminary Julis to allow a landowner or other "inflexed party" in mowe ahead expeditiously to obtain a Corps permit authorization where the party determines that it is in his or he best interest. In most cases, expanded preliminary JDs are also non-hinding "written indications that there may be waters of the United States or wettands on a parcel or indications of the approximate location(s) of the submitted in conjunction with an expanded preliminary JD request, would provide the landowner or affected party with defensible documentation concerning the limits of corps jurisdiction.

Approved Jurisdictional Determination - As defined in Regulatory Guidance Letter 08-02, an approved JD is an official Corps determination that jurisdictional "waters of the United States," or the United States," or both, are either present or absent on a particular site. An approved JD precisely identifies the limits of those waters on the project site determined to be jurisdictional under the CWA/RMA. (See 33 C.F.R. 331.2.)

Joe T Public , request a jurisdictional

determination the above property, grant the US Army Corps of Engineers permission to conduct an on-site inspection, and certify that I am authorized to grant permission for entry into the property.

SIGNED Gre J. Sublic DATE 1/26/11

**TO COMPLETE THIS REQUEST ALL OF THE REQUIRED INFORMATION IN THE APPLICABLE CHECKLIST MUST BE PROVIDED **

10/15/2010 Page 2 of 2

JD Request Form





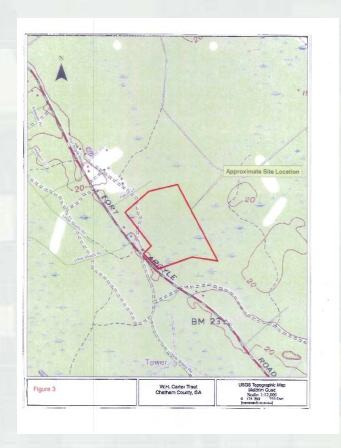




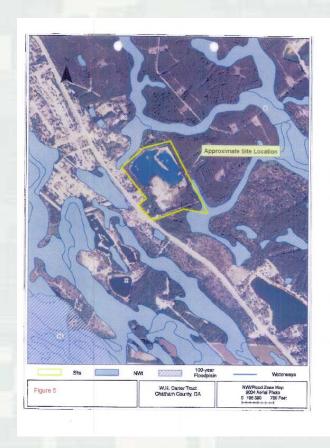
Driving directions to site

Location Map





USGS Topographic Map



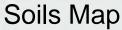
NWI/Flood Zone Map



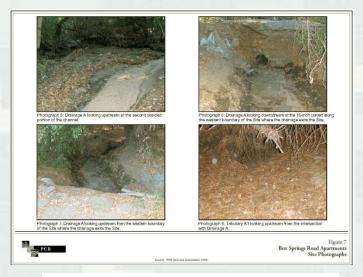


Wetland C

Wetland Data Point Map

















Formal survey by registered surveyor

Formal GPS survey

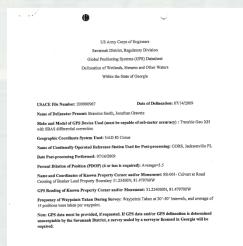
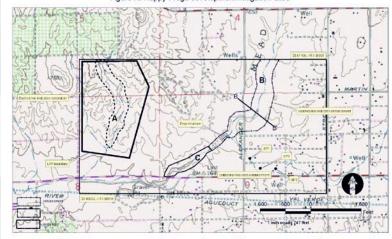


Figure X. Happy Frogs development mitigation sites





PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):
- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD: Toe T. Public, 123 Main Street,
- C. DISTRICT OFFICE, FILE NAME, AND NUMBER:
- D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
- D. PROJECT LOCATION(S) AND BACKGROUND ISPONAATION:
 (USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)
 State: G-A County/parish/brough: Checkboon. City: Sourchash,
 Center coordinates of site (tallong in degree decimal format): Lat 3: UNY Pick List, Long-Fill UPP Pick List.
 Universal Transverse Mercator:
- Name of nearest waterbody: Ogeechee River
- Identify (estimate) amount of waters in the review area:

 Non-wetland waters: linear feet: width (ft) and/or acres.
- Cowardin Class: PFOLC
- Name of any water bodies on the site that have been identified as Section 10 waters:

 Tidal: 8J/A

 Non-Tidal:
- REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
- E. RYTEW PERFORMED FOR SITE 1 ALAGATUM (LILEAR ALLA TRADS ALLA TRA
- In successful a time time.

 2. In any circumstense where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other goard permit verification requiring "pre-construction multifusation" (PCN), or requests verification for a non-permit NVP or other goard permit verification requiring "pre-construction to the net requeried an approval D for the activity, the arthorization bard on a preliminary ID, which does not make an official determination of jurisdictional waters; (2) and that the applicant has the option to request an approved ID office accepting the terms and conditions of the permit authorization, and that being a permit authorization of an approved ID office of the permit authorization, and that being a permit authorization and option of the permit authorization, and that being a permit authorization and option of the permit authorization, and the being a permit authorization and accepting the terms and conditions of the permit attack than accepting the terms and conditions of the NPP of the permit attack than accepting the terms and conditions of the permit attack than accepting the terms and conditions of the permit attack than accepting the terms and conditions of the permit attack than accepting the terms and acceptance of the permit attack of the permit attack than accepting the terms and acceptance of the permit attack of the permit attack and acceptance of the permit attack of the permit water beliefs on the site all retiefs of the site of t

331.5(a)(2). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction elses over a task, or to provide an official defination of jurisdictional vaters on the site, the Corps CWA jurisdictional vaters on the site, the Corps TWA jurisdictional vaters of the site, the Corps TWA provides of the following information: SWEPORTING DATA. Data reviewed for precinitary 2D (decided after a should be affected by the proposed activity, based on the following information: SWEPORTING DATA. Data reviewed for precinitary 2D (decided after a should be SWEPORTING DATA. Data reviewed for precinitary 2D (decided after a should be supplied to the state of the

- nation(s). File no. and date of response letter:

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of person requesting preliminary JD (REQUIRED, unless obtaining the signature is

Appendix D



Project/Site: Riverview Trac		City/County: Savannah/C	Chatham	Sampling Da	e: 10/29/2010
Applicant/Owner: Joe T. Publ	ic '		State: GA	Sampling Poi	nt: 1
nvestigator(s): John Consult	ant	Section, Township, Range:	N/A		
andform (hillslope, terrace, etc.)	Flat	Local relief (concave, conve	x. none): Conc	ave s	tope (%): 0
Subregion (LRR or MLRA): LR	RT Lat 32.1	1234 Long	-81.1234		Datum: WGS 84
Soil Map Unit Name: Ellabelle				ification: PFO1	
	ns on the site typical for this time of v		(If no, explain in		
	, or Hydrology < significant			s' present? Yes	1
	, or Hydrology naturally p			wers in Remarks	
			,		
SUMMARY OF FINDINGS	- Attach site map showin	ig sampling point locat	ions, transec	ts, important	features, etc.
Hydrophytic Vegetation Presen	? Yes ✓ No				
Hydric Soil Present?	Yes ✓ No	ls the Sampled Area within a Wetland?		√ No	
Wetland Hydrology Present?	Yes ✓ No	within a Wetland?	Yes_	V No_	_
Remarks:					
Site significantly disturbe	d.				
					-
HYDROLOGY					
Wetland Hydrology Indicators	K.		Secondary Inc	licators (minimum	of two required)
Primary Indicators (minimum of	one is required; check all that apply)	Surface S	oil Cracks (B6)	
Surface Water (A1)	✓ Water-Stainer			Vegetated Conca	ve Surface (B8)
High Water Table (A2)	Aquatic Faun		Drainage		
✓ Saturation (A3)	Mari Deposits		Moss Trin		
✓ Water Marks (B1)		Ifide Odor (C1)		on Water Table (0	(2)
Sediment Deposits (B2) Drift Deposits (B3)		cospheres on Living Roots (C3 Reduced Iron (C4)		surrows (C8) Visible on Aerial	Imment (CO)
Algal Mat or Crust (B4)		Reduction in Tilled Soils (C6)		nic Position (D2)	imagery (C9)
Iron Deposits (B5)	Thin Muck Su			guitard (D3)	
Inundation Visible on Aeria		n in Remarks)	✓ FAC-Neut		
Field Observations:	,,,,,		-		
	Yes No ✓ Depth (inche				
Water Table Present?	Yes _ ✓ No Depth (inche	es): 8			
Saturation Present?	Yes _ No Depth (inche	ns): 2 Wetland	Hydrology Pres	ent? Yes_	No
(includes capillary fringe)	m gauge, monitoring well, aerial pho	dos arruíous inspestians) if a	oniteble:		
Describe Necorded Data (sirea	il gauge, monitoring weil, aeriai prio	nos, previous inspections), il a	valiable.		
Remarks:					
rvernario.					

Tree Stratum (Plot sizes: 30 feet)	Absolute		nt Indicator	Dominance Test worksheet:
			2 Status	Number of Dominant Species
. Pinus taeda	5			That Are OBL, FACW, or FAC: 9 (A)
Quercus nigra	5	ves	FAC	
. Persea borbonia	- 6	Moe	EACW	Total Number of Dominant Species Across All Strata: 9 (8)
. Nyssa sylvatica				Species Across All Strata:(B)
. INVOCA CYTVALICS				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 100 (A/E
5				Prevalence Index worksheet:
	0.5			Total % Cover of: Multiply by:
Sapling Stratum (30 feet)	_25	= Total C	over	OBL species x 1 =
Pinus taeda	5	1/00	FAC	FACW species x 2 =
Acer rubrum				FAC species x3 =
				FACU species x4 =
3				
				UPL species x 5 =
5				Column Totals: (A) (B)
5		_		Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
20 (_10	= Total C	Cover	✓ Dominance Test is >50%
Shrub Stratum (_30 feet)				Prevalence Index is <3.0
Myrica cerifera				Problematic Hydrophytic Vegetation ¹ (Explain)
2				Problematic Hydrophytic Vegetation' (Explain)
3				
l				*Indicators of hydric soil and wetland hydrology must be present.
5				be present.
3				
				Definitions of Vegetation Strata:
	20	= Total C	Cover	
Herb Stratum (30 feet)				Tree - Woody plants, excluding woody vines,
. Woodwardia virginica				approximately 20 ft (6 m) or more in height and
Woodwardia aereolata	5	no	OBL	3 in. (7.6 cm) or larger in diameter at breast height (DBH).
		no	OBL	neight (DBH).
s. Saururus cernuus				
s. Saururus cernuus				Sanling - Woody plants excluding woody vines
				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
i.				Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
			_	approximately 20 ft (6 m) or more in height and less
8 8			=	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines,
			\equiv	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
			Ξ	approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5. 5. 5. 5. 6. 9. 9.				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 m) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
5				aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub — Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb — All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes
5. 5. 5. 5. 6. 9. 9.				aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (ft to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, scopt woody views, less than
5				aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub — Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb — All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes
0 0 11 122 22 24 130 140 150 150 150 150 150 150 150 150 150 15	35	= Total C	Cover	approximately 2 0ft (fi m) or more in height and less than 3 nr. (7.6 m) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Heth – All herbecous (non-woody) plants, including herbecous vines, regardless of late. Includes approximately 3 ft (1 m) in height.
0. 0. 11. 12. 12. 12. 12. 12. 12. 12. 12. 12	35 20	= Total C	Cover	aproximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (ft to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody plants, scopt woody views, less than
0 0 1.1 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	35 20	= Total (Cover FAC	approximately 2 0ft (fi m) or more in height and less than 3 nr. (7.6 m) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Heth – All herbecous (non-woody) plants, including herbecous vines, regardless of late. Includes approximately 3 ft (1 m) in height.
10	35 20	= Total (Cover	approximately 2 0ft (fi m) or more in height and less than 3 nr. (7.6 m) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Heth – All herbecous (non-woody) plants, including herbecous vines, regardless of late. Includes approximately 3 ft (1 m) in height.
0 0 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	35 20	= Total (Cover	approximately 20 ft (if in) or more in height and less than 3 in; (if an office) the Scholding woody view. Shirth—Nodoy jalents, excluding woody view, approximately 3 20 ft (if it did nij) in height. Hafth—A flundancous (non-woody) jalents, including herbaceous view, approximately 30 gt (in) height. Woody Virte—All woody views, regardless of height Microsolytics.
10	35 20	= Total (Cover	approximately 2 0ft (fi m) or more in height and less than 3 nr. (7.6 m) DBH. Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Heth – All herbecous (non-woody) plants, including herbecous vines, regardless of late. Includes approximately 3 ft (1 m) in height.

Depth	ription: (Describe	to the depth		ment the indicator of	or confirm	the absence of	indicators.)	
(inches)	Color (moist)	% -	Color (moist)	x Features % Type	Loc ²	Texture	Rem	arks
0-12	10YR 2/1					silty loam		
13-14	10YR 3/1					sity day loam		
\equiv					=			
¹Type: C=Cc Hydric Soll I	ndicators:	pletion, RM+F		S*Covered or Coate		Indicators fo	ion: PL=Pore Lin	ing, M=Matrix.
Histic Ep	inedon (A2)			irface (S9) (LRR S, 1		2 cm Mus	k (A10) (LRR S)	
Black His	stic (A3)		Loamy Muck	y Mineral (F1) (LRR		Reduced	Vertic (F18) (out	side MLRA 150A
	n Sulfide (A4)			ed Matrix (F2)			Floodplain Soils	
Stratified	Layers (A5) Bodies (A6) (LRR P	T 10	✓ Depleted Ma Redox Dark			Anomaloi (MLRA	us Bright Loamy 8	Soils (F20)
	cky Mineral (A7) (LI		Depleted Day	rk Surface (F7)			nt Material (TF2)	
Muck Pre	esence (A8) (LRR L	J)	Redax Depre	essions (F8)			low Dark Surface	
	ck (A9) (LRR P, T)		Marl (F10) (L	.RR U)		Other (Ex	plain in Remarks)
Depleted	Below Dark Surfac rk Surface (A12)	10 (A11)	Depleted Oct	hric (F11) (MLRA 15 ese Masses (F12) (L	DD O D 7			
		MLRA 150A)		ce (F13) (LRR P, T,			rs of hydrophytic d hydrology must	
Sandy M	ucky Mineral (S1) (Delta Ochric	(F17) (MLRA 151)		wegan	a nyarology musi	be present.
Sandy G	leyed Matrix (S4)		Reduced Ver	tic (F18) (MLRA 150	0A, 150B)			
Sandy R	edox (S5)			odplain Soils (F19)				
Stripped	Matrix (S6) face (S7) (LRR P. 5	R T III	Anomalous E	bright Learny Soils (F	20) (MLRA	148A, 153C, 1	sau)	
	ayer (if observed)							
Type:			_					
Depth (inc	hes):					Hydric Soil Pr	esent? Yes_	✓ No
Remarks:								

Data Forms: Data Point 1 (Wetland)



Nationwide Permit Update

- Re-issued every 5-years.
- Feb 11 2012 NWPs issued in Federal Register
 - -34 of 48 NWPs to be reissued with no changes
 - New NWPs A and B proposed for energy projects

Mar 19, 2012 - Proposed NWP Effective Date



2012 Nationwide Permits

- Jan 11 Initiated consultation with Native American Indian
 Tribes for issuance of 2012 NWPs
- Mar 11 Issued a Public Notice soliciting public input on revisions to NWP Regional Conditions (RCs)
- Apr 11 Initiated coordination with resource agencies for development of 2012 NWP RCs
- Apr 11 Initiated consultation with USFWS and NMFS on use of Standard Local Operating Procedures for Endangered Species (SLOPES)
- May 11 Initiated Coordination with Georgia EPD and CRD for Water Quality and CZM Certifications



2012 Nationwide Permits

- Aug 11 Issue Public Notice advertising final draft of 2012 NWP RCs
- Oct 11 Prepare draft Decision Documents for final approval of final NWP RCs
- Dec 11 Complete coordination with Georgia EPD and CRD for issuance of conditional Water Quality and CZM Certifications
- Dec 11 Final 2012 NWPs published in Federal Register, 90 days prior to March 19, 2012



Final Mitigation Rule

- 2008 Final Mitigation Rule (33CFR Part 332)
- Rule requires watershed-level review
- Mitigation Hierarchy
 - ► Mitigation bank credits
 - ▶ In-lieu fee credits
 - ► Permittee responsible watershed approach
 - ► Permittee responsible: on-site & in-kind
 - ► Permittee responsible: off-site and/or out-of-kind



Mitigation Banking Tools

Draft Guidelines to Establish and Operate Mitigation Banks in GA



Primary/Secondary Service Area Modifications in the State of Georgia

- 17 Primary Service Areas (PSA)
- 52 8-digit HUCs
- Approx 1000 12-digit HUCs

SOP Revisions – In development now.

BI Evaluation and Findings



- 1996/97 Savannah District's Mitigation SOP. Revised in 2000 and 2004.
- 2010 Revising SOP. Emphasis will placed on watershed context and habitat replacements.

Guidelines to Evaluate Proposed Mitigation Bank Credit Purchases in the State of Georgia





Regulatory Internet Banking Information Tracking System

- 1992 1st Commercial Mitigation Bank Millhaven Plantation, Screven County
- 100+ Commercial Mitigation Banks Approved
- 68% Approved Since 2005
- 50% Approved Since 2007
- 30,000+ Acres in Georgia Mitigation Banks

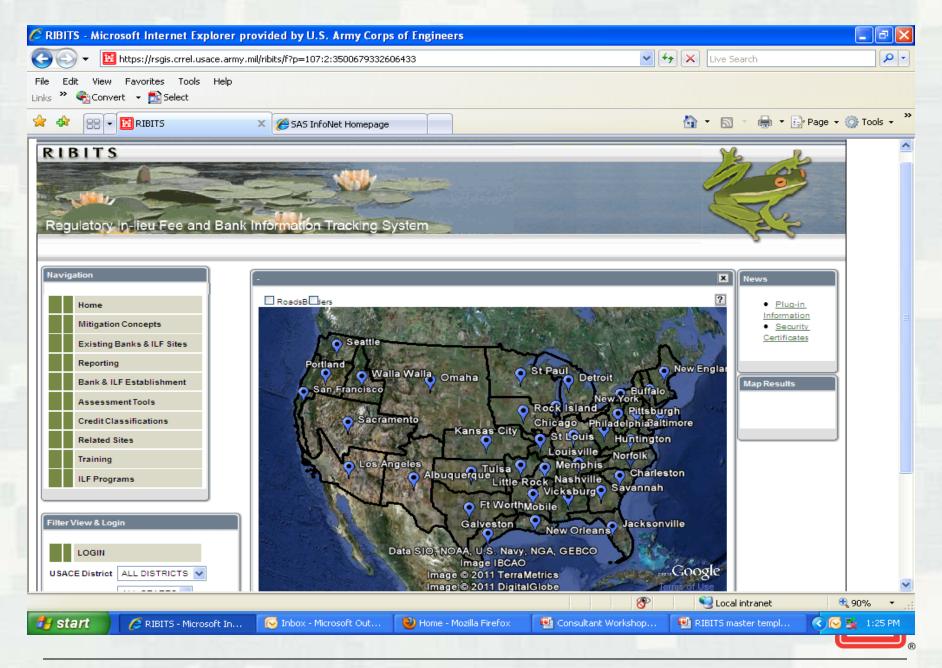


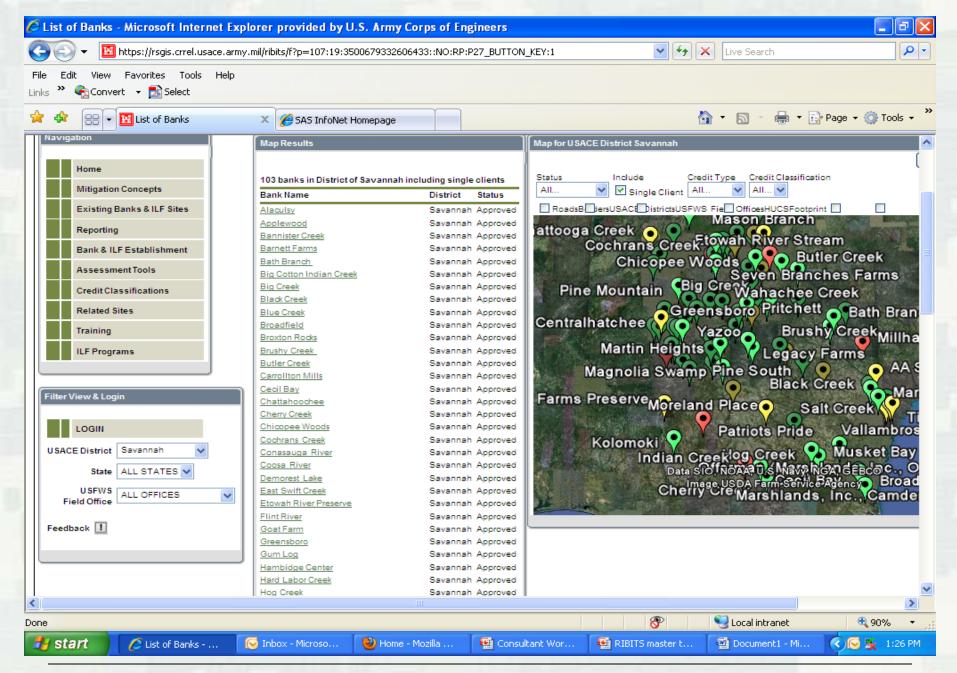


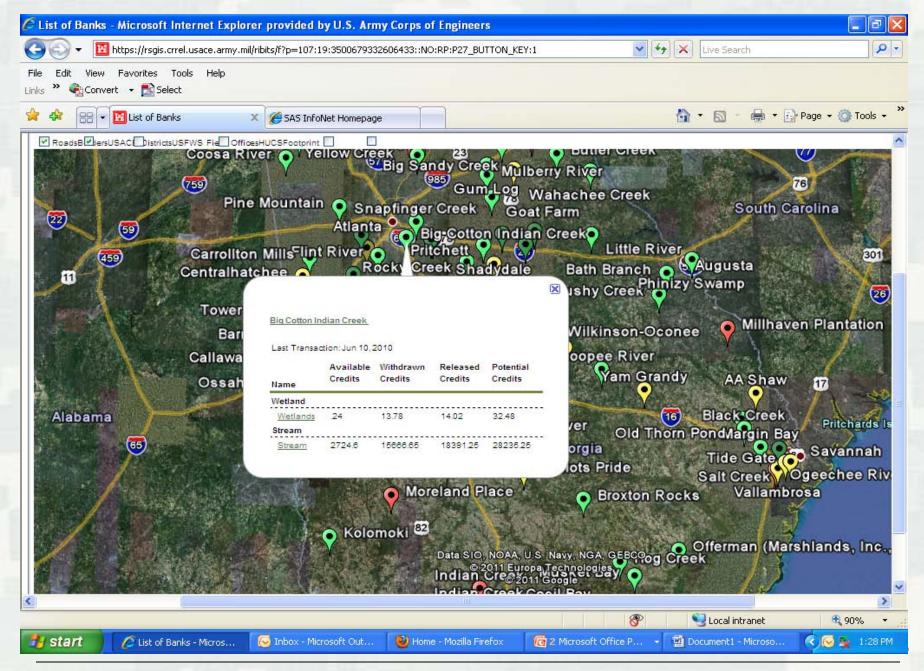
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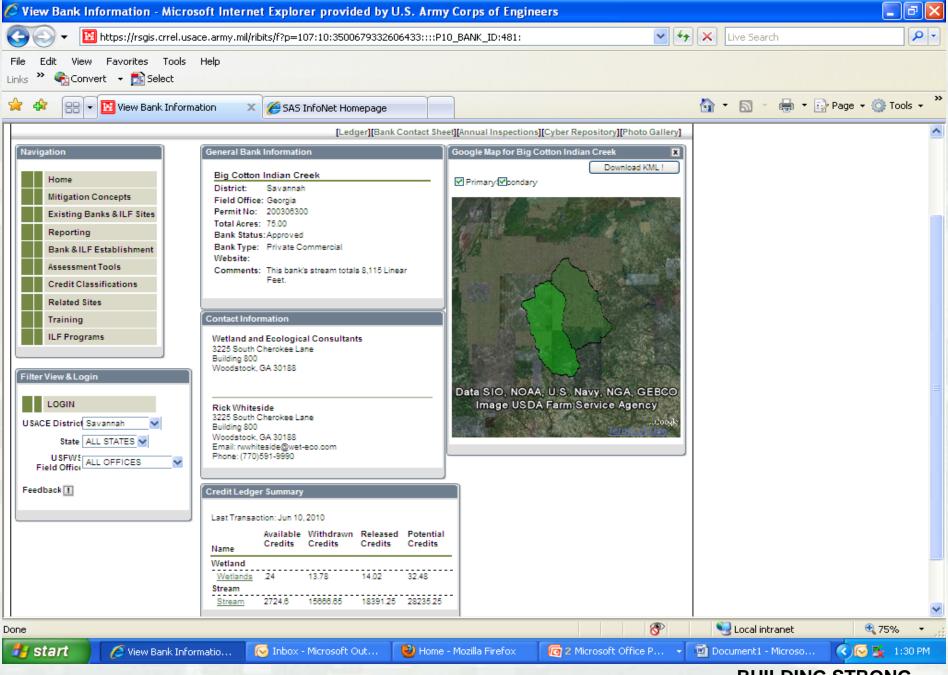
- Online database, viewable to the public
- Provides:
 - ▶ Secure, web-based application
 - Online tracking of mitigation banks and in-lieu fee programs/sites
 - ► REGULATORY: Credit tracking, national reporting, information repository, ORM interface
 - ► MITIGATION BANKERS: Technology transfer, electronic ledger, contact information
 - ► PUBLIC: Information lookup

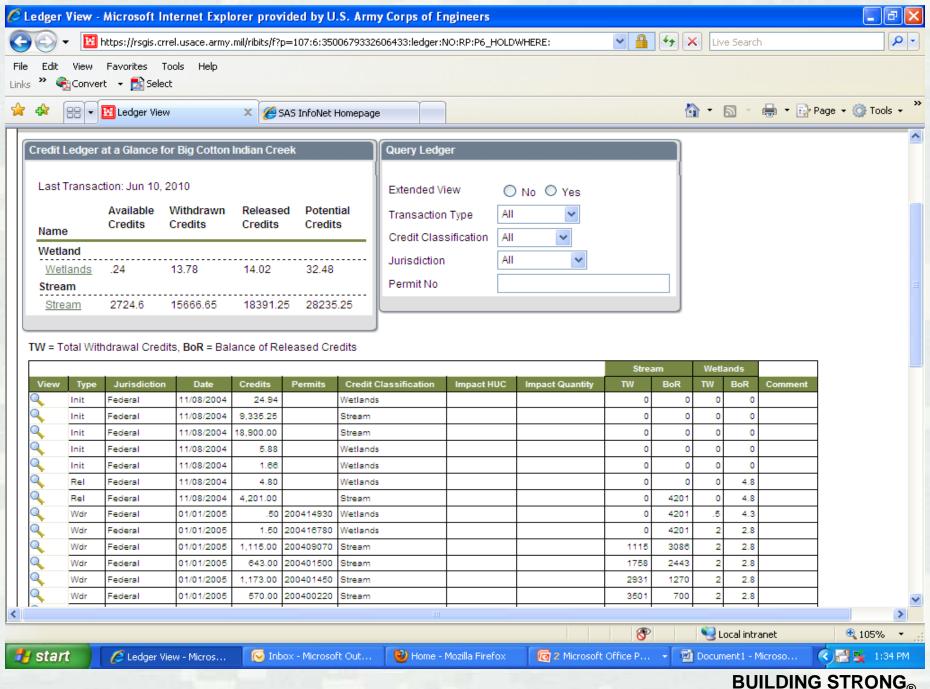


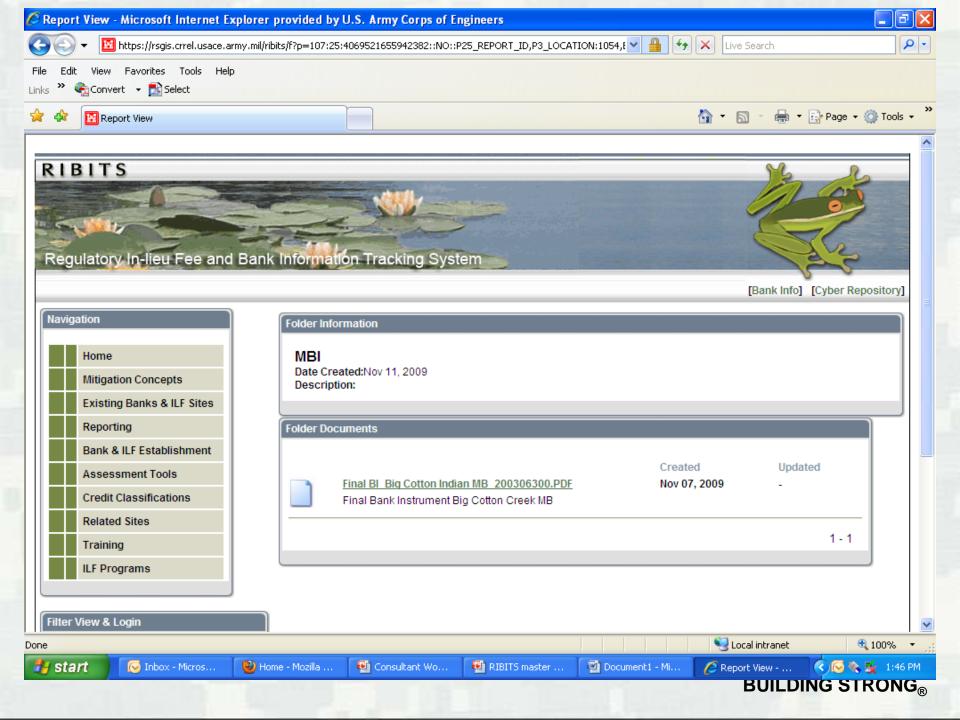


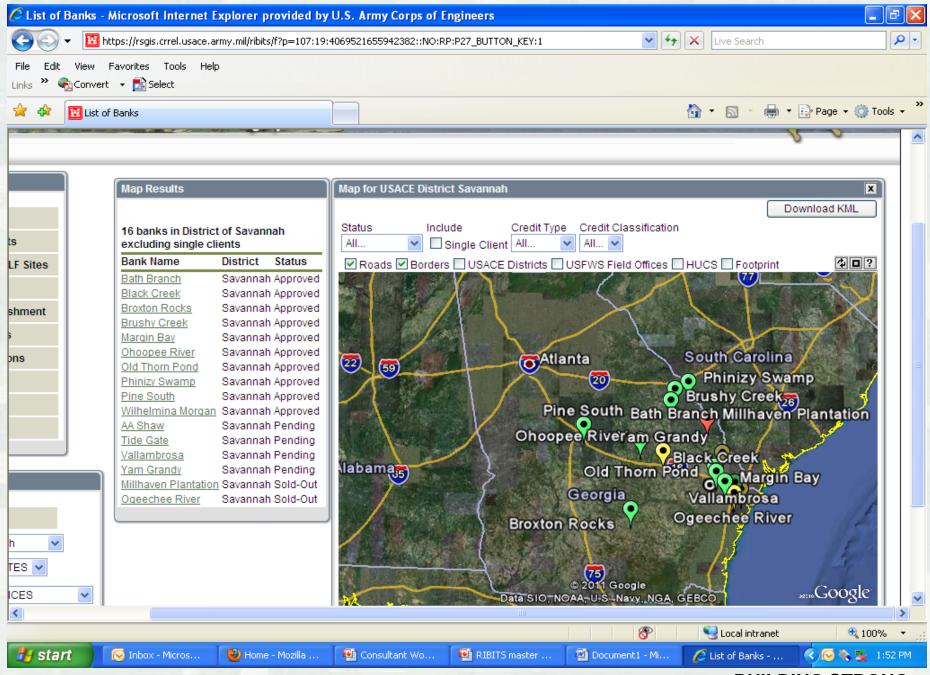












Benefits

- Better information for regulators, resource agencies and the public
- District institutional memory
- Reduced number of FOIA requests
- Interface with ORM to complete missing information for permits
- Way Forward:
 - ▶ In-lieu Fee: initial load complete, not viewable to the public yet
 - ► Species credit tracking



Mitigation: Why Change The Approach?

- According to the Rule, "the amount of required compensatory mitigation must be, to the extent practicable, sufficient to replace lost aquatic resource functions. In cases where appropriate functional or condition assessment methods or other suitable metrics are available, these methods should be used where practicable to determine how much compensatory mitigation is required."
- In response to comments encouraging USACE to use functional assessments to determine mitigation requirements, Savannah District set out to develop its own functional assessment methodology for calculation mitigation.

2011 SOP Concept

- For impacts and restoration, the first step is to determine how much function does the aquatic resource currently have (i.e., a functional assessment of existing conditions).
- Once the existing condition is determined, then you can calculate the appropriate functional loss or gain from the baseline score dependent upon the proposal.
- The existing conditions, impacts, and restoration worksheets are structured to follow the 3 factor approach in Appendix 10 of the Guidelines.



2011 SOP – Existing Conditions

I. Buffer/Landscape Functions

Average Buffer Width: > 300 linear feet 1.00

Percent of Buffer Coverage 100%

of AA Perimeter: 100% 1.00

Localized Drainage Basin Condition:

Forest and Native Range - > 75% groundcover 1.00

Choose Soil Class

Patch/Cooridor Connectivity:

Unobstructed Connectivity to Natural Areas - 4 directions (900 feet)

1.00

Mean Buffer Score

1.00

(Buffer_{score}):

IV. Summary Existing Conditions Score

Total Mean Existing Condition Buffer_{score} + Abiotic_{score} + Score = $Bio_{score} / 3 =$





New Aquatic Resource Credit Types

Wetland Credits will be replaced by the following wetland credit types (based upon hydro-dynamics):

Riverine (i.e., Bottomland Hardwoods)

Lacustrine Fringe

Depressional

Slope (i.e., Seeps and Bays)

Flats (i.e., Pine Flatwoods)

Salt Tidal (i.e., Saltwater Marsh)

Fresh Tidal (i.e., Freshwater Marsh)

Stream Credits will be replaced by the follow stream credit types (base upon flow regime):

Ephemeral

Intermittent 1_{rd} and 2 Order Perennial 3 Order Perennial and greater

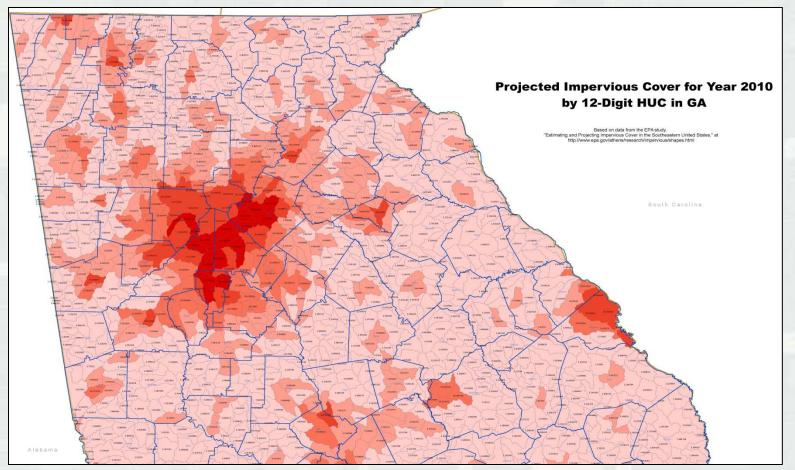


New Urban Service Area Filter

- As a measure to ensure aquatic functions are not trans-located from urban areas through the purchase of credits from non-urban mitigation banks, Savannah District has developed a new urban service area filter concept.
- This concept would provide additional filter in which to determine the preferential mitigation option. This urban filter would be placed upon the existing primary service areas and give urban mitigation banks higher preference to compensate for impacts that occur within urban designated 12-digit HUCs.
- Urban 12-digit HUCs will be identified through a selected percentage of impervious surface present.
- The threshold of the percentage of impervious surface for the "urban" categorization has yet to be finalized.



New Urban Service Area Filter





Mitigation Rule's Requirement for FA/LTM

- According to the Mitigation Rule, "The district engineer shall require sufficient financial assurances to ensure a high level of confidence that the compensatory mitigation project will be successfully completed, in accordance with applicable performance standards".
- The Mitigation Rule also requires that bank sponsors provide for LTM.
 This LTM plan must include a non-wasting endowment to ensure that there is funding for management and maintenance in perpetuity.
- To date, there is only one software package commercially available to accurately estimate these costs (*only for LTM).



FA/LTM Database Development

- Purpose is to provide public with a consistent methodology for determining both financial assurances (FA) and long term management (LTM) funding.
- Database will provide costs for the following:
 - ► FA for construction;
 - ► FA for monitoring; and
 - ► Funding for the endowment of LTM.
- Database should be ready for public use by late-June.



FA/LTM Database Development

CATEGORY/Task List	Specification	Unit Type	Unit Cost	# of Units	Total Cos
Hydrologic Enhancement					
Ditch Plug		Item (Each)	\$1,000.00		
Levee Removal		Linear Foot	\$500.00		
Mass Grading (Creation)		Acre	\$10,000.00		
Equpiment Operator Labor		Labor Hours	\$60.00		
Sub-Total					
VEGETATIVE ENHANCEMENT					
Willow Stakes		Item (Each)	\$1.00		
Bare Root Hardwood Stem		Item (Each)	\$5.00		
1-Gallon Hardwood Stem		Item (Each)	\$10.00		
3-Gallon Hardwood Stem		Item (Each)	\$20.00		
5-Gallon Hardwood Stem		Item (Each)	\$30.00		
Bare Root Cypress Stem		Item (Each)	\$5.00		
1-Gallon Cypress Stem		Item (Each)	\$10.00		
3-Gallon Cypress Stem		Item (Each)	\$20.00		
5-Gallon Cypress Stem		Item (Each)	\$30.00		
Wetlands Seed Mix		Pound (LBS)	\$50.00		
Planting Crew Labor		Labor Hours	\$20.00		
Sub-Total					
EROSION CONTROL AND STABLIZATION					
Install Double Row Type-C Silt Fence		Linear Foot	\$50.00		
Annual Rye Seed Mix		Pound (LBS)	\$35.00		
Brown Top Millet Seed Mix		Pound (LBS)	\$35.00		
Warm Weather Seed Mix		Pound (LBS)	\$25.00		
Hay Bails		Item (Each)	\$5.00		
Sub-Total					



FA/LTM Database Development

Summary Report

Name of Project

Project #

Project Phase/Category	Total Costs	
Wetland Construction	\$204,340.00	
Wetlands Monitoring	\$168,978.00	
Year 1	\$23,800.00	
Year 2	\$25,700.00	
Year 3	\$27,230.00	
Year 4	\$28,790.00	
Year 5	\$31,002.00	
Year 6	\$32,456.00	
Year 7		
Long Term Management (LTM)	\$152,740.00	
Year 1	\$50,230.00	
Year 2	\$50,830.00	
Year 3	\$51,680.00	
Total Cost	\$526,058.00	



Project Schedule

- We are currently working on completing the data input from our industry teams and formula development.
- By the end of May 2011, we will have beta testing sessions of the database tool with our industry teams.
- Database should be ready for public use by mid-June 2011.



In-Lieu-Fee Program

- 1997 I-L-F Program
- Lands preserved:
 - ▶ 1,479.93 acres of wetlands
 - ▶ 31.2 miles of waters/buffers

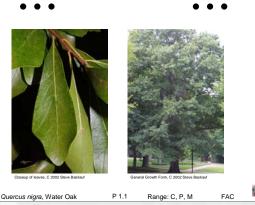


- May 12, 2010 programmatic revisions were reflected in PN to comply with new rule requirements.
- Way Forward.



Field Guide Book





Soils

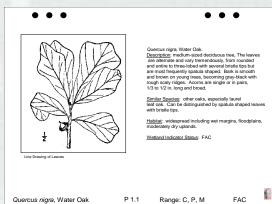


Hydrology



Surface Water, Indicator A1

Range: C. P. M Primary Indicator



P 1.1

FAC

Quercus nigra, Water Oak



Histosol, Indicator A1

Technical Description: Classifies as a Histosol

Applicable Subregions: Applicable throughout The Atlantic and Gulf Coastal Plain Region

User Notes: A histosol has 16 in. or more of the Upper 32 in. as organic soil material. Histosols also include soils that have organic soil material of any thickness over rock or fragmental soil material that has interstices filled with organic soil material. Organic soil material has an organic carbon content (by weight) of 12 to 18% or more, depending on the clay content of the soil. The material includes muck (sapric soil material), mucky peat (hemic soil material), or peat (fibric soil material). This indicator is locally common in LRRs T and U but is rare across most of the coastal plain region. It is most likely to be associated with flats and tidal fringe wetlands that are saturated to the surface, and with depressional wetlands that are ponded or saturated nearly all year. Folists are rare or absent in this region Histosols are generally not found at the veen wetlands and non-wetlands

Range: C, P, M All Soils Surface Water, Indicator A1

Indicator A1: Surface Water General Description: This indicator consists of the direct, visual observation of surface water (flooding or ponding) during a site visit.

Cautions and User Notes: Care must be used in applying this indicator because surface water may be present in non-wetland areas immediately after a rainfall event or during periods of unusually high precipitation, runoff, tides, or river stages. Furthermore, some non-wetlands flood frequently for brief periods. Surface water observed during the non-growing season may be an acceptable indicator if experience and professional judgment suggest that wet conditions normally extend into the growing season for sufficient duration in most years. If this is questionable and other hydrology indicators are absent, a follow-up visit during the growing season may be needed. Note that surface water may be absent from a wetland during the normal dry season or during extended periods of drought. Even under normal rainfall conditions, some wetlands do not become inundated or saturated every year (i.e., wetlands are inundated or saturated at least 5 out of 10 years, or 50 percent or higher probability). In addition, groundwater-dominated wetland systems may

never or rarely contain surface water. Use caution in areas with functioning ditches and/or subsurface drains that may remove surface water quickly.



Range: C, P, M Primary Indicator

GREAT PEOPLE, RESPECTED, RESPONSIVE and CONNECTED

P 1.1



Hmmm...

What have I forgotten?



