

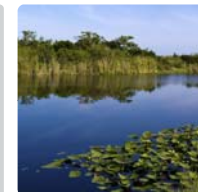
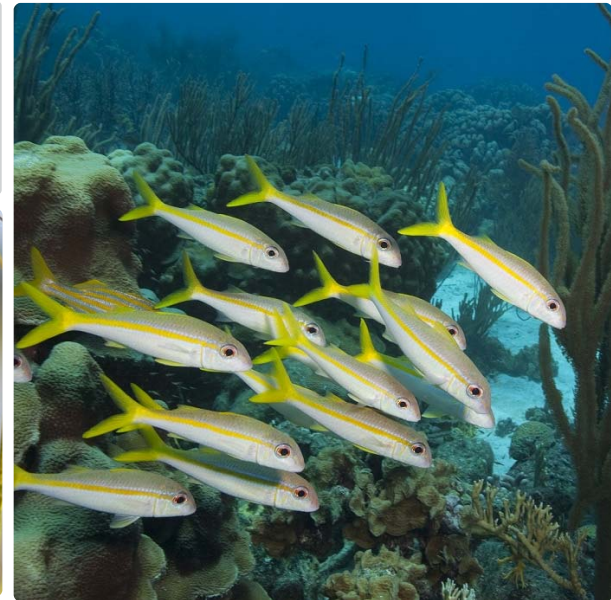


Florida Gulf Environmental Benefit Fund: Draft Restoration Strategy

September 14, 2016

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Phone: 415-655-0002 | Access Code: 642-583-292



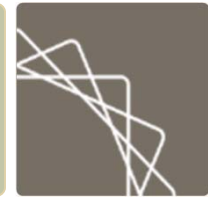
Agenda



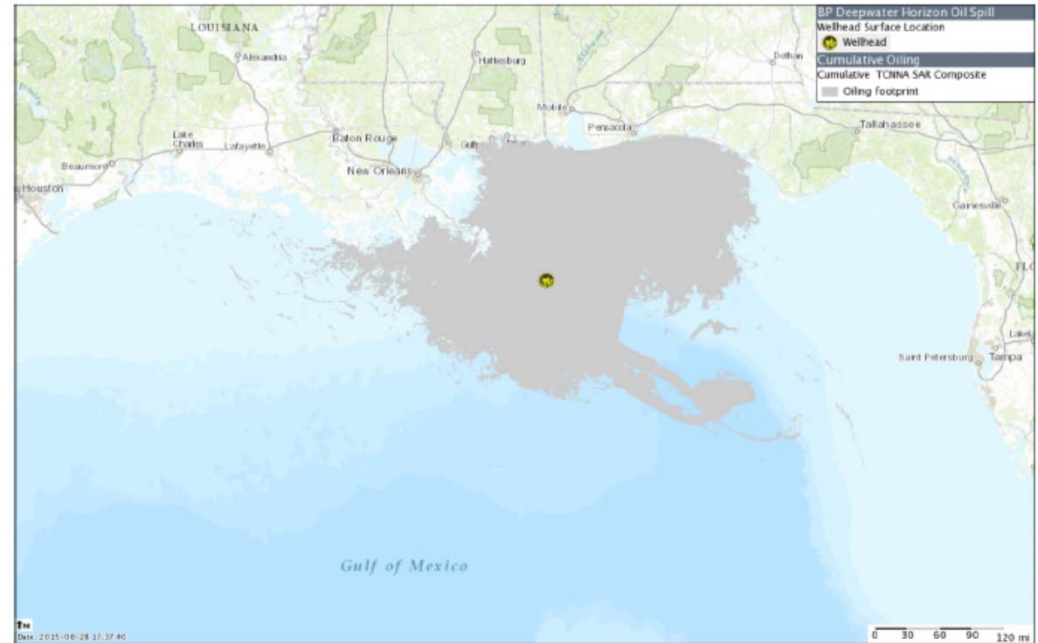
- Background
- Draft Restoration Strategy
 - Introduction
 - Process to Develop the Draft Restoration Strategy
 - Results: Priority Needs in Florida
 - Results: Potential Action Lists
- Next Steps
- Q&A session

Background

Deepwater Horizon (DWH) Oil Spill



"Oil spread from the deep ocean to the surface and nearshore environment, from Texas to Florida. The oil came into contact with and injured natural resources as diverse as deep-sea coral, fish and shellfish, productive wetland habitats, sandy beaches, birds, endangered sea turtles, and protected marine life."



Source: ERMA (2015).



Source: U.S. Coast Guard.



Source: DOE (2010).

DWH Natural Resource Damage Assessment Trustees, 2016
<http://www.gulfspillrestoration.noaa.gov/restoration-planning/gulf-plan>

About the GEBF



- Established in early 2013
- \$2.554 billion from criminal cases against BP and Transocean
- \$356 million allocated for projects in Florida over a five-year period
- In 2015, FWC and DEP received funds from NFWF to develop the Restoration Strategy to guide the allocation of GEBF funds in Florida
- GEBF ≠ RESTORE or NRDA

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Draft Restoration Strategy



Introduction



GEBF Funding Priorities



- FP #1: Restore and maintain **coastal habitats**
- FP #2: Restore and maintain **coastal bays and estuaries**
- FP #3: Replenish and protect **living resources**



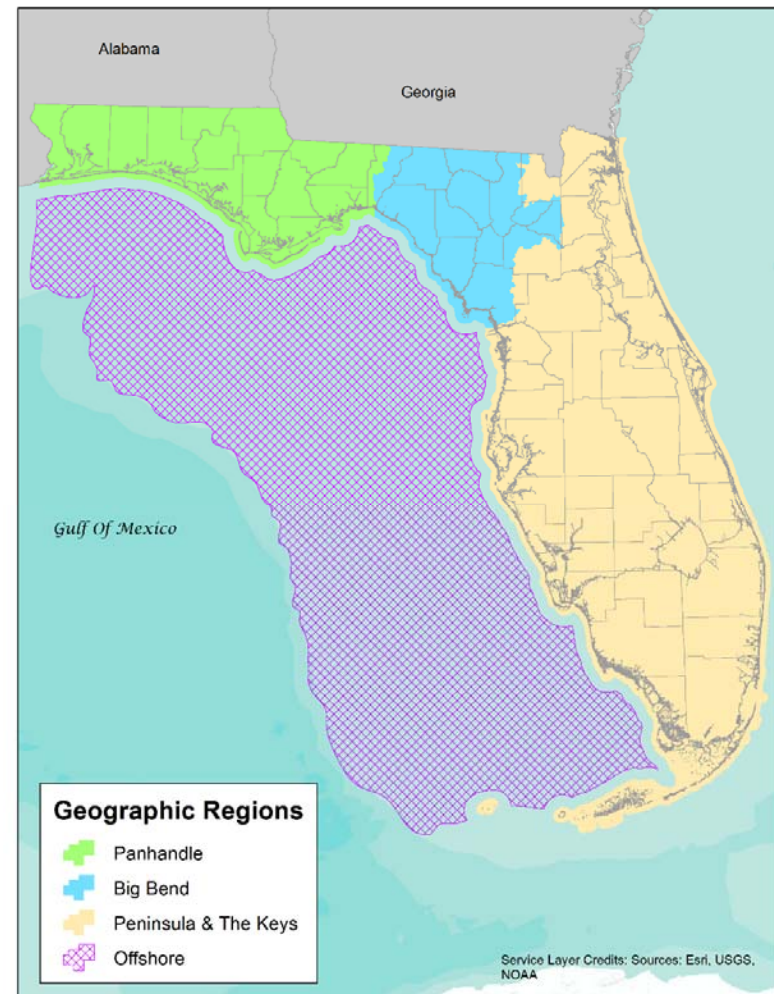
GEBF objective

“To support projects that remedy harm to natural resources (habitats, species) where there has been injury to, or destruction of, loss of, or loss of use of those resources resulting from the oil spill. Projects are expected to occur within reasonable proximity to where the impacts occurred, as appropriate.”

Geography



- Panhandle
- Big Bend
- Peninsula & The Keys
- Offshore



Objective



- Provide a cohesive vision for planning the remaining GEBF investments in Florida to best address restoration needs for resources affected by the DWH spill



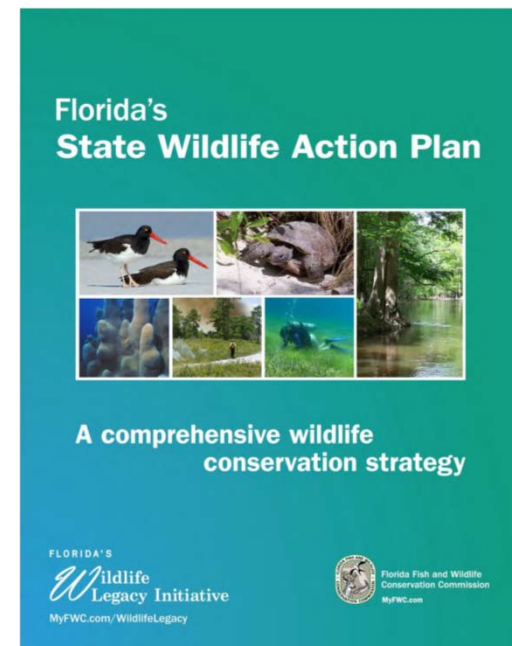
Process to Develop the Draft Restoration Strategy



Restoration Strategy Approach



- Compile conservation and management plans
- Conduct stepwise analysis to identify restoration needs within each watershed
- Develop potential action lists for each watershed from projects submitted to the Florida project portal



Identifying Restoration Needs



Step 1: Identify plan information

Step 2: Assign values to plans

Step 3: Review actions in plan

Step 4: Group actions into categories

Step 5: Determine category occurrence

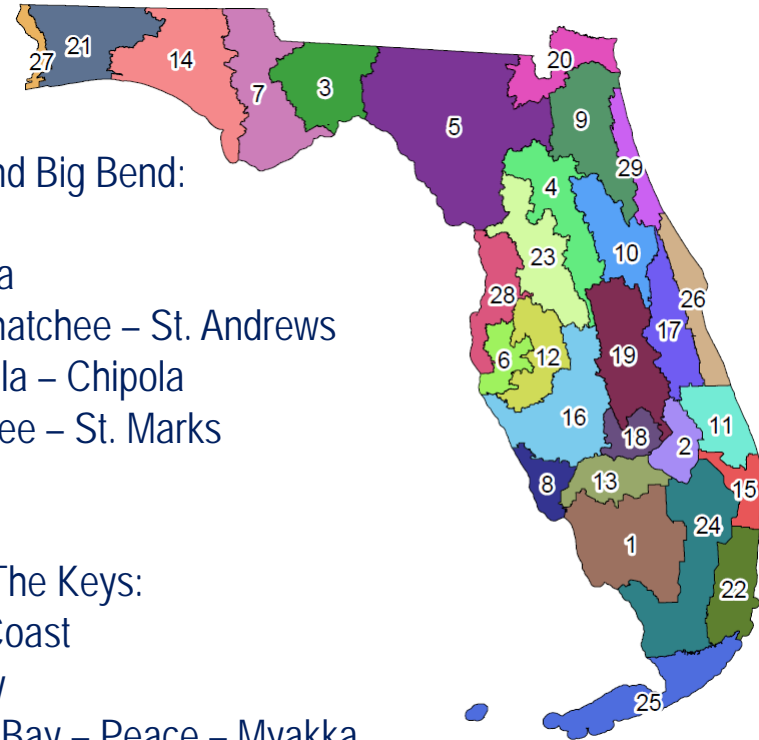
Step 6: Calculate category scores

Step 7: Develop rankings

Step 1: Identify Plan Information



- Geographic region
- Geographic scope
- Gulf of Mexico watershed



Panhandle and Big Bend:

- 27) Perdido
- 21) Pensacola
- 14) Choctawhatchee – St. Andrews
- 7) Apalachicola – Chipola
- 3) Ochlockonee – St. Marks
- 5) Suwannee

Peninsula & The Keys:

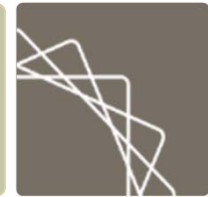
- 28) Springs Coast
- 6) Tampa Bay
- 16) Sarasota Bay – Peace – Myakka
- 8) Charlotte Harbor
- 1) Everglades West Coast
- 24) Everglades
- 25) Florida Keys

Step 2: Assign Values to Plans



- Plans weighted by relevance to GEBF restoration planning
- Two scales used
 - Higher values to plans that address broader geographic scopes
 - Higher values to critical plans

Steps 3 and 4: Review Actions in Plan and Group Actions into Categories



FP #1 – Restore and maintain coastal habitats	FP #2 – Restore and maintain coastal bays/estuaries	FP #3 – Replenish and protect living resources
Habitat restoration/protection – exotic/invasive vegetation	Habitat restoration/protection – exotic/invasive vegetation	
Habitat restoration/protection – general		
Habitat restoration/protection – land	Water quality – general	
Habitat restoration/protection – pre-		
Habitat restoration/protection (beach/shoreline)	<ul style="list-style-type: none"> • Improve water quality 	
Habitat restoration/protection (fore-	<ul style="list-style-type: none"> • Address sources of degradation 	
Habitat restoration/protection (marsh/wetland)	<ul style="list-style-type: none"> • Address pollution (general) 	
Habitat restoration/protection (offshore/marine)	<ul style="list-style-type: none"> • Address nutrient pollution 	
Habitat restoration/protection (reef/living shoreline)	<ul style="list-style-type: none"> • Address impaired waterways 	
Habitat restoration/protection (vegetation-aquatic)	<ul style="list-style-type: none"> • Reduce point and non-point sources of pollution 	
Habitat restoration/protection (vegetation-terrestrial)	<ul style="list-style-type: none"> • Reduce chemical degradation 	
Resiliency (coastal/ecosystem)	<ul style="list-style-type: none"> • Improve ineffective Best Management Practices (BMPs; general) 	
	<ul style="list-style-type: none"> • Reduce toxic organic compounds 	

Steps 5–7: Determine Category Occurrence, Calculate Category Scores, and Develop Rankings



- Category occurrence: The number of times each category occurred in each watershed
- Category scores: Multiply occurrence by weighting factors as appropriate
- Develop rankings: Calculate totals for each watershed

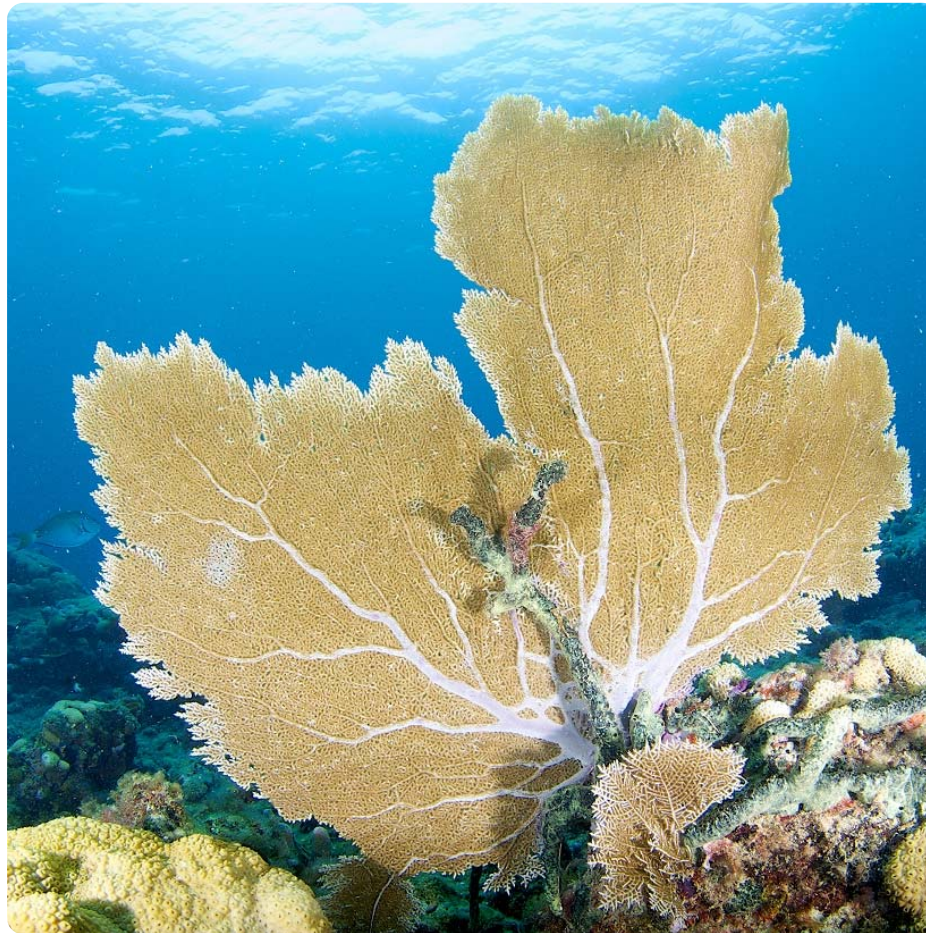
Developing Potential Action Lists



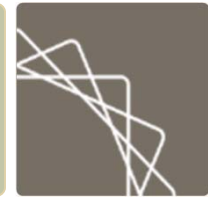
- Used State of Florida's online project portal (the Portal)
- Screened projects for:
 - GEBF topical-relevancy
 - GEBF geographical-relevancy
- Identified all relevant restoration categories
- Attempted to contact proponents of GEBF-relevant projects to confirm project status

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Results: Priority Needs in Florida



Priority Needs Overview



- Results of plan analysis for each Funding Priority and watershed
- Results presented as pie charts
- Categories that ranked within the top 50% of the total score for a watershed are “top restoration needs”

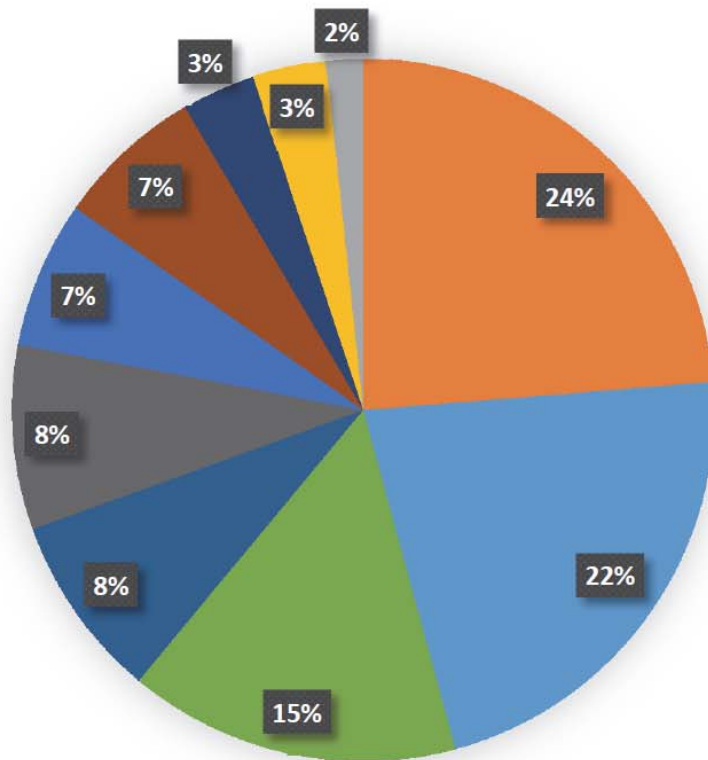
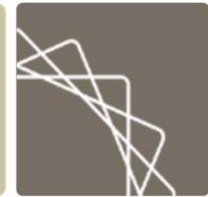
FP #1: Restoring and Maintaining Coastal Habitats



- Most frequent top restoration needs in Panhandle and Big Bend watersheds:
 - Land acquisition
 - General habitat restoration and protection
 - Restoration and protection of aquatic vegetation
 - Habitat restoration and protection through the treatment of exotic and invasive vegetation

- Other notable results denote specific needs for particular watersheds

Example: FP #1 Perdido Watershed



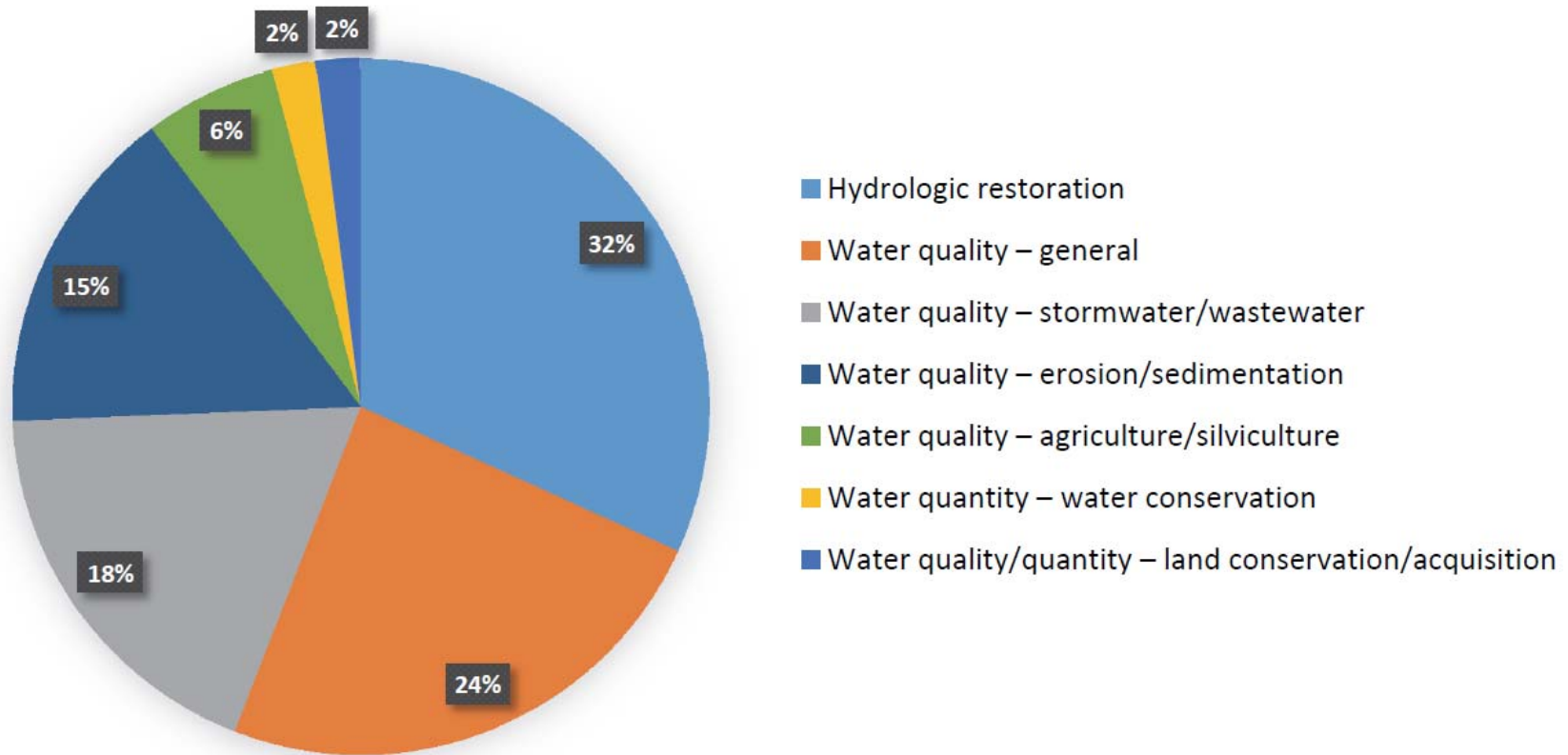
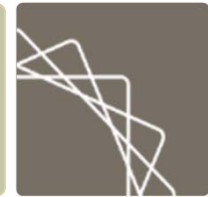
- Habitat restoration/protection (marsh/wetland)
- Habitat restoration/protection (vegetation-aquatic)
- Habitat restoration/protection – land acquisition
- Habitat restoration/protection – exotic/invasive vegetation
- Habitat restoration/protection – prescribed fire
- Resiliency (coastal/ecosystem)
- Habitat restoration/protection (beach/shoreline)
- Habitat restoration/protection (vegetation-terrestrial)
- Habitat restoration/protection – general
- Habitat restoration/protection (reef/living shoreline)

FP #2: Restoring and Maintaining Coastal Bays and Estuaries



- Most frequent top restoration needs in Panhandle and Big Bend watersheds:
 - General water quality
 - Stormwater and wastewater quality
 - Hydrologic restoration
- Top restoration needs are very similar across watersheds

Example: FP #2 Suwannee Watershed

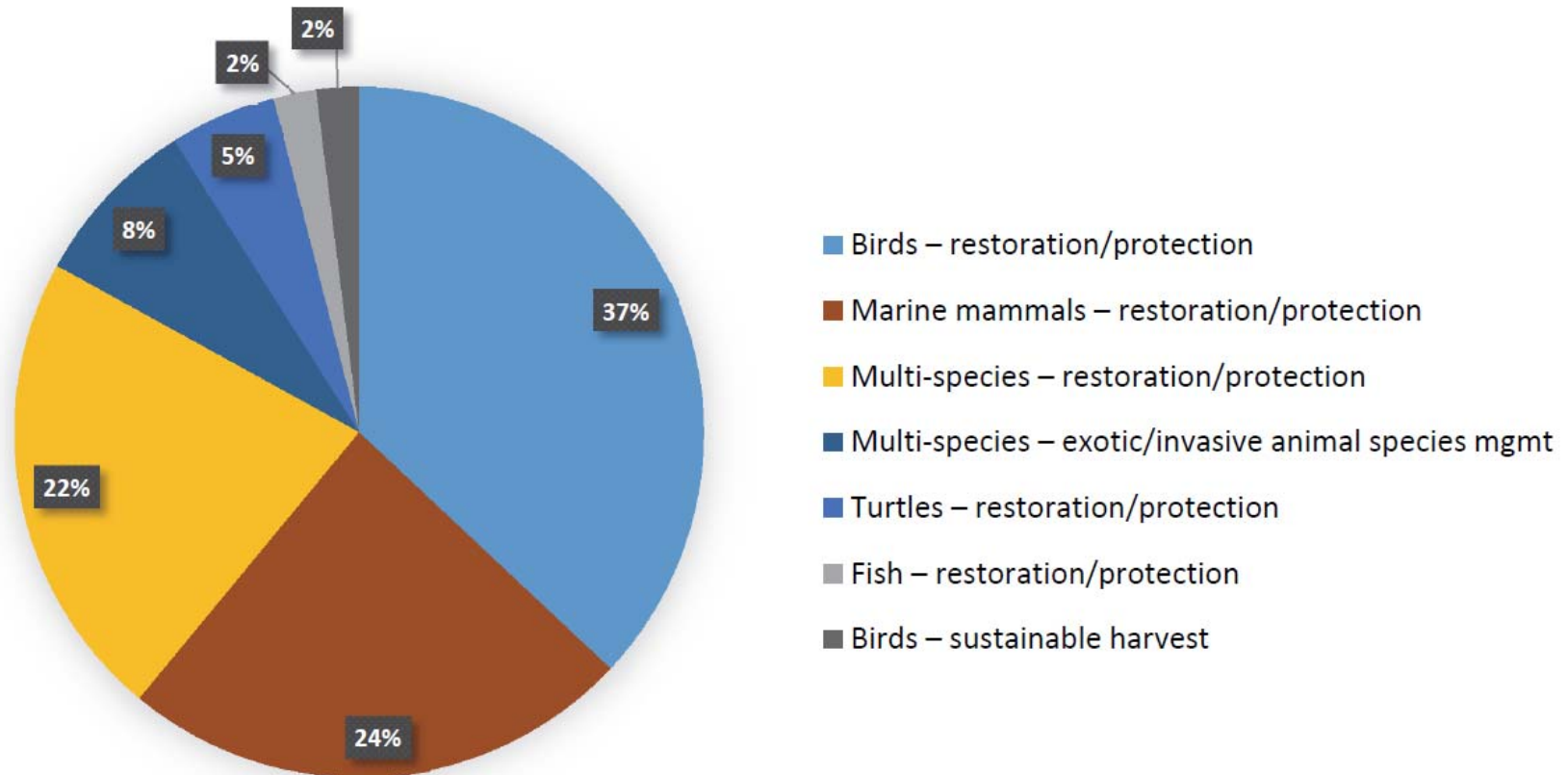
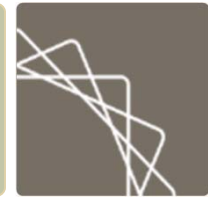


FP #3: Replenishing and Protecting Living Resources



- Most frequent top restoration needs in Gulf of Mexico watersheds:
 - Restoration and protection of multiple species
 - Restoration and protection of birds
 - Restoration and protection of fish
- Other notable results denote specific needs for particular watersheds

Example: FP #3 Springs Coast Watershed



Sensitivity Analysis



- Purpose: To determine how much influence assigning weights had on the final results
- Methods: Reanalyzed without weighting
- Results:
 - Two approaches yield similar results for each FP across all watersheds, particularly for the top categories
 - There are some differences in the categories that are prioritized in any given watershed
 - No top categories appear in the unweighted analysis that are missing in the weighted analysis

Results: Potential Action Lists

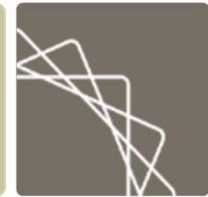


Development of Potential Action Lists



- Reviewed 1,433 projects in Portal
 - 595 were GEBF-relevant
 - The rest were not included for one of the following reasons:
 - Project was a duplicate
 - Project was removed at request of proponent
 - Not GEBF-topically relevant
 - Not GEBF-geographically relevant
 - Project referred to a plan, rather than a specific project

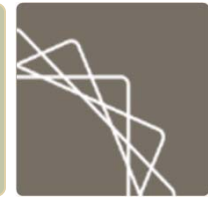
Potential Action List Example: Peninsula and The Keys Watersheds



Portal Project Number	Project Title	Funding Priority # 3							Scope	
		Birds - restoration/protection	Birds - sustainable harvest	Fish - restoration/protection	Fish - sustainable harvest	Marine mammals - restoration/protection	Multi-species - exotic/invasive animal species management	Multi-species - restoration/protection		Turtles - restoration/protection
68	Restoring Fishery Habitat on the West Florida Continental Shelf: Phase I, Benthic Habitat Characterization and Assessment				☑					FL GOM Coast
81	Greater Tampa Bay Rookery Island Restorations	☑						☑		Multi-watershed
93	Channel Marker Reef Ball Micro-Habitats			☑				☑		FL GOM Coast
94	Under Dock/Piers Reef Ball Habitat			☑				☑		Statewide

Next Steps

Stakeholder and Partner Engagement – Draft Restoration Strategy

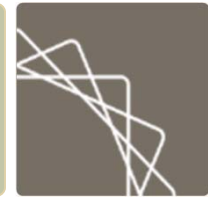


- Formal process for stakeholder and public comment on Draft Restoration Strategy, via:
 - GEBF stakeholder email list
 - deepwaterhorizonflorida.com

2016 Restoration Strategy Timeline

OCT	NOV	DEC
<p>Close comment period (Oct 5); Review comments, set criteria, and select potential projects for 2017 GEBF cycle</p>	<ul style="list-style-type: none"> • Invite draft pre proposals • Conduct stakeholder engagement: webinar on 2017 GEBF project selection (TBD) 	<p>Review comments and select 2017 GEBF project candidates</p>

Final Restoration Strategy Timeline



2017 Restoration Strategy Timeline

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Refine/submit project pre-proposals to NFWF for 2017 GEBF cycle			Prepare the Final Restoration Strategy: evaluate comments on Draft Restoration Strategy from stakeholders, evaluate new or updated plans since Draft Restoration Strategy review, evaluate new or updated projects to state project Portal since Draft Restoration Strategy review						Complete and distribute the Final Restoration Strategy	<ul style="list-style-type: none"> • Conduct stakeholder engagement: public review of Final Restoration Strategy and webinar (TBD) • Review comments, set criteria, and select potential projects for 2018 GEBF cycle 		<ul style="list-style-type: none"> • Invite draft pre-proposals • Conduct stakeholder engagement: webinar on 2018 GEBF project selection (TBD)

Parallel Process – SWIM Plans and SAV Assessment (2016)



	AUG	SEPT	OCT	NOV	DEC
Panhandle SWIM Plan Updates (NFWFMD)	Complete and distribute draft watershed characterizations: Perdido River and Bay, Pensacola Bay System, Choctawhatchee River and Bay, St. Andrew Bay, Ochlockonee River and Bay, and St. Marks River and Apalachee Bay			Conduct stakeholder engagement: public review of draft watershed characterizations and public workshops: Perdido (TBD), Pensacola (TBD), Choctawhatchee (TBD), St. Andrew (TBD), Ochlockonee (TBD), and St. Marks and Apalachee (TBD)	
Big Bend SWIM Plan Updates (SRWMD)	Complete draft SWIM plans: Suwannee River Basin and Coastal River Basin		Conduct stakeholder engagement: public review of draft SWIM plans and public workshops: Suwannee River Basin (TBD) and Coastal River Basin (TBD)		Complete SWIM plans: Suwannee River Basin and Coastal River Basin
SAV Assessment (FWRI)	<ul style="list-style-type: none"> • Conduct seagrass, water, and sediment quality assessments • Create maps • Build/revise website • Build/revise SAV model 				

NFWFMD: <http://www.nfwwater.com/Water-Resources/SWIM/SWIM-Plan-Updates>

SRWMD: <http://www.mysuwanneeriver.com/index.aspx?nid=447>

SAV Assessment: <http://www.myfwc.com/research/habitat/seagrasses/projects/roadblocks/>

Parallel Process – SWIM Plans and SAV Assessment (2017)



	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Panhandle SWIM Plan Updates (NFWFMD)	Conduct remaining public workshops		Complete draft SWIM plans: Perdido River and Bay, Pensacola Bay System, Choctawhatchee River and Bay, St. Andrew Bay, Apalachicola River and Bay, Ochlockonee River and Bay, and St. Marks River and Apalachee Bay			Conduct stakeholder engagement: public review of draft SWIM plans			Complete SWIM plans				
Big Bend SWIM Plan Updates (SRWMD)													
SAV Assessment (FWRI)	<ul style="list-style-type: none"> • Conduct stakeholder workshops (TBD) • Conduct seagrass, water, and sediment quality assessments • Create maps • Build/revise website • Build/revise SAV model 		<ul style="list-style-type: none"> • Complete seagrass, water, and sediment quality assessments • Finish maps • Build/revise website • Build/revise SAV model 			<ul style="list-style-type: none"> • Complete website • Complete SAV model 							

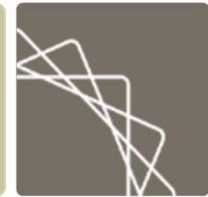
Implementation and Management



- Review and update of Restoration Strategy, as needed
- Incorporate information from:
 - New or updated plans
 - New or updated projects from portal
 - Project-specific monitoring
 - Other non-GEBF restoration efforts and monitoring/science programs
- Continue to engage stakeholders to discuss updates to the Restoration Strategy

Questions and Answers

Questions and Answers Instructions



- Questions should be typed into the Q&A box
- Comment period will continue through October 5

Submit comments in writing to:

Amy.Raker@MyFWC.com

Submit comments in writing to:
Amy.Raker@MyFWC.com

For information and to
submit new projects and
updates to projects:
deepwaterhorizonflorida.com

