

Approach	Technique	Metric	Name	Description	Tracking the metric
Create, restore, and enhance coastal wetlands, islands, shorelines, and headlands	Sediment placement	HR013	Wetland and shoreline habitat - Acres restored	Enter the number of acres restored (i.e., the project footprint), including marshes, beaches, flooded forests, swamps, mudflats, estuarine habitats.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Other examples include cubic volume or mass of sediment deposited and number of vegetation plugs installed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR014	Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support primary objectives for this technique.
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.
	Protect natural shorelines	HR002	Shoreline protection - Miles of shoreline protection installed	Enter the miles of shoreline protection installed. This should be selected and reported for coastal habitat shoreline restoration projects that protect against erosion, including construction of foreshore rock dikes and reef breakwaters. Living shoreline projects should instead select HR012.	The activity completion parameter(s) should include miles of shoreline protection installed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR012	Shoreline protection - Miles of living shoreline installed	Enter the number of miles of living shoreline installed to buffer against shoreline erosion. Where applicable, use the notes field to indicate the width of the living shoreline (in feet). When conducting shoreline protection, always also select metric "HR014 - Habitat restoration - Land change rate."	The activity completion parameter(s) should include miles of living shoreline protection installed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR013	Wetland and shoreline habitat - Acres restored	Enter the number of acres restored (i.e., the project footprint), including marshes, beaches, flooded forests, swamps, mudflats, estuarine habitats.	The activity completion parameter(s) should include acres restored (i.e., acres over which restoration activities were implemented). Other examples include number of vegetation plugs installed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR014	Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. For activities that employ shoreline protection to reduce erosion, use pre-implementation data to update the metric baseline value in PIPER. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support primary and some secondary objectives for this technique.
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
	Land acquisition	HC001	Conservation easements - Acres protected under easement	Enter the number of acres protected under long-term easement (permanent or >30-yr). Acres protected under easement should always be brought under improved management.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique.
		HC002	Conservation easements - Miles of shoreline protected under easement	Enter the number of miles under long-term easement (permanent or >30yr). This includes miles of shoreline in coastal streams or open coast (i.e., beaches). Miles protected under easement should always be brought under improved management.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed). If measures of area are not possible, miles may be used. Activity completion parameters are not sufficient to support the goals/objectives of this technique.
HC003		Land acquisition - Acres acquired in fee	Enter the number of acres acquired in fee. Acres acquired in fee should always be brought under improved management.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique.	
HC004		Land acquisition - Miles of shoreline acquired in fee	Enter the number of miles acquired. This includes miles of shoreline in coastal streams or open coast (i.e., beaches). Miles acquired in fee should always be brought under improved management.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed). If measures of area are not possible, miles may be used. Activity completion parameters are not sufficient to support the goals/objectives of this technique.	
HM001		Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.	
HR014		Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.	
RES003		Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.	

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Protect and conserve coastal, estuarine, and riparian habitats	Habitat management and stewardship	HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
		HM005	Agricultural BMPs - Acres under contracts/agreements	Enter the number of acres under contract(s) or agreement(s) to implement BMPs on privately owned land. This is typically agricultural land, but may include silvicultural or other land use types. Each acre should be entered only once (i.e., enter the number of acres under the contract/agreement, not the acres under individual BMPs, which may "double count" acres). Always also select the metric for # people enrolled (COI003). Other metrics may be selected to capture specific restoration activities, but do not count acreage toward the habitat restoration metrics HR004 - HR007, HR010, or HR013 (in order to avoid double counting).	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique.
		HR004	Upland or other habitat - Acres restored	Enter the number of acres restored. Habitat included in this metric has been restored to original (or target) habitat and ecosystem function. This metric should be used for habitats that span outside (or occur beyond) habitats captured by other metrics, such as upland forests.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR005	Artificial reef - Acres created/restored	Enter the number of acres impacted by the addition of artificial reefs and other habitat enhancements to benefit offshore marine life.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR007	SAV habitat - Acres restored	Enter the number of acres of submerged aquatic vegetation restored.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR008	Removal of invasive species - Acres restored	Enter the number of acres restored to native vegetation through the removal of invasive exotics. Acres counted using this metric should not overlap with acres counted toward restoration of wetlands or other habitats (i.e., HR004 - HR007, HR010, HR013) in order to avoid double counting.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR010	Riparian habitat - Acres restored	Enter the number of acres of riparian habitat restored to improve water quality. This may include riparian lake habitat (e.g., for stormwater pond plantings). Do not include acres where activities are fully captured by erosion control metrics (e.g., HR001, HR003).	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR013	Wetland and shoreline habitat - Acres restored	Enter the number of acres restored (i.e., the project footprint), including marshes, beaches, flooded forests, swamps, mudflats, estuarine habitats.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR014	Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
		OEB001	Other environmental benefits - Number of metric tons of greenhouse gas emissions reduced	Enter the number of metric tons reduced annually.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some the primary objective for this technique.
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
			Decommission unused, orphaned energy facilities	HC005	Decommissioning energy facilities - Number of wells plugged
		HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to provide additional support to some primary objectives for this technique.
		HM002	Nutrient reduction - Lbs. nutrients avoided or removed	Enter the total amount of nutrients removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	One or more nutrient-specific parameters should be used in lieu of Activity completion. These parameters can provide additional support to some primary objectives for this technique.
		HM003	Nutrient reduction - Lbs. P avoided or removed	Enter the total amount of phosphorus removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	A parameter of the same name should be used in lieu of Activity completion. This parameter can provide additional support to some primary objectives for this technique.

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Restore hydrology and natural processes	Restore hydrologic connectivity	HR009	Hydrologic restoration - Acres restored	Enter the number of acres with restored hydrology. This can include wetlands and upland buffer/transition habitats. Implementation may include restoration activities such as sediment removal for tidal connections, sediment placement to modify hydrologic connections, excavation and re-grading to modify existing water features, creation of water conveyance systems, etc.	The activity completion parameter(s) should include acres restored. Other examples include number of culverts installed or repaired and acres of management types (i.e., acres over which different management activities are performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		HR011	Hydrologic restoration - Miles of canals backfilled	Enter the number of miles of canals backfilled. Use the notes field to provide the average width of the canals backfilled.	The activity completion parameter(s) should include miles of canals backfilled. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		HR014	Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. For activities that employ this technique to reduce shoreline erosion, use pre-implementation data to update the metric baseline value in PIPER. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.	
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.	
	Restore natural salinity regimes		HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to provide additional support to some primary objectives for this technique.
			HM002	Nutrient reduction - Lbs. nutrients avoided or removed	Enter the total amount of nutrients removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	One or more nutrient-specific parameters should be used in lieu of Activity completion. These parameters can provide additional support to some primary objectives for this technique.
			HM003	Nutrient reduction - Lbs. P avoided or removed	Enter the total amount of phosphorus removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	A parameter of the same name should be used in lieu of Activity completion. This parameter can provide additional support to some primary objectives for this technique.
			HR009	Hydrologic restoration - Acres restored	Enter the number of acres with restored hydrology. This can include wetlands and upland buffer/transition habitats. Implementation may include restoration activities such as sediment removal for tidal connections, sediment placement to modify hydrologic connections, excavation and re-grading to modify existing water features, creation of water conveyance systems, etc.	The activity completion parameter(s) should include acres restored. Other examples include number of culverts installed or repaired and acres of management types (i.e., acres over which different management activities are performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
			HR011	Hydrologic restoration - Miles of canals backfilled	Enter the number of miles of canals backfilled. Use the notes field to provide the average width of the canals backfilled.	The activity completion parameter(s) should include miles of canals backfilled. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
			HR014	Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. For activities that employ this technique to reduce shoreline erosion, use pre-implementation data to update the metric baseline value in PIPER. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.
	Controlled river diversions		HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to provide additional support to some primary objectives for this technique.
			HM002	Nutrient reduction - Lbs. nutrients avoided or removed	Enter the total amount of nutrients removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	One or more nutrient-specific parameters should be used in lieu of Activity completion. These parameters can provide additional support to some primary objectives for this technique.
			HM003	Nutrient reduction - Lbs. P avoided or removed	Enter the total amount of phosphorus removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	A parameter of the same name should be used in lieu of Activity completion. This parameter can provide additional support to some primary objectives for this technique.
			HR009	Hydrologic restoration - Acres restored	Enter the number of acres with restored hydrology. This can include wetlands and upland buffer/transition habitats. Implementation may include restoration activities such as sediment removal for tidal connections, sediment placement to modify hydrologic connections, excavation and re-grading to modify existing water features, creation of water conveyance systems, etc.	The activity completion parameter(s) should include acres restored. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR013	Wetland and shoreline habitat - Acres restored	Enter the number of acres restored (i.e., the project footprint), including marshes, beaches, flooded forests, swamps, mudflats, estuarine habitats.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	

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		HR014	Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. For activities that employ this technique to reduce shoreline erosion, use pre-implementation data to update the metric baseline value in PIPER. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.
		HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.
		HM002	Nutrient reduction - Lbs. nutrients avoided or removed	Enter the total amount of nutrients removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	One or more nutrient-specific parameters should be used in lieu of Activity completion. These parameters may support or provide additional support to the primary objective for this technique.
		HM003	Nutrient reduction - Lbs. P avoided or removed	Enter the total amount of phosphorus removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.
		HM004	Sediment reduction - Lbs. sediment avoided or removed	Enter the total amount of sediment removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	The activity completion parameter(s) should include lbs. of sediment avoided or removed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HM005	Agricultural BMPs - Acres under contracts/agreements	Enter the number of acres under contract(s) or agreement(s) to implement BMPs on privately owned land. This is typically agricultural land, but may include silvicultural or other land use types. Each acre should be entered only once (i.e., enter the number of acres under the contract/agreement, not the acres under individual BMPs, which may "double count" acres). Always also select the metric for # people enrolled (COI003). Other metrics may be selected to capture specific restoration activities, but do not count acreage toward the habitat restoration metrics HR004 - HR007, HR010, or HR013 (in order to avoid double counting).	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique.
		HM008	Pollutant reduction - Miles of hard surface improved	Enter the number of miles of roads or other hard surface improved to reduce runoff of sediment and other pollutants. This metric should not be used for roadway created or improved to increase recreational access.	The activity completion parameter(s) should include miles of hard surface improved. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR001	Erosion control - Acres restored	Enter the area over which restoration activities are performed to reduce surface and/or stream channel erosion. Do not include additional acres of watershed expected to achieve reduced sediment pollution. Do not include acres counted toward the riparian restoration metric (HR010). Possible restoration activities include plantings, regrading streambanks, gully repair, etc.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
	Agriculture and forest management	HR003	Stream restoration - Miles of stream channel protection installed	Enter the miles of stream channel protection installed. This should be selected for streambank and streambed protection projects (e.g., using riprap) conducted to reduce erosion and resulting sediment pollution.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). If measures of area are not possible, miles may be used. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR004	Upland or other habitat - Acres restored	Enter the number of acres restored. Habitat included in this metric has been restored to original (or target) habitat and ecosystem function. This metric should be used for habitats that span outside (or occur beyond) habitats captured by other metrics, such as upland forests.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR010	Riparian habitat - Acres restored	Enter the number of acres of riparian habitat restored to improve water quality. This may include riparian lake habitat (e.g., for stormwater pond plantings). Do not include acres where activities are fully captured by erosion control metrics (e.g., HR001, HR003).	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR013	Wetland and shoreline habitat - Acres restored	Enter the number of acres restored (i.e., the project footprint), including marshes, beaches, flooded forests, swamps, mudflats, estuarine habitats.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.

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Reduce excess nutrients and other pollutants to watersheds		RES001	Natural resource stewardship - Number of resource conservation measures implemented	Enter the number of resource conservation measures being implemented (or number of parties adopting each resource conservation measure, if applicable). Resource conservation measures could include energy or water conservation measures, such as those resulting from an energy audit, renewable energy assessment, or water efficiency audit.	The activity completion parameter(s) should include number of resource conservation measures implemented (or number of parties adopting each resource conservation measure). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
		RES004	Pollutant reduction - CFU Reduction in bacterial loads	Enter the CFU reduction resulting from the activity.	One or more taxonomic-specific parameters should be used in lieu of Activity completion. These parameters may support the primary objective for this technique.
	Stormwater management	HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.
		HM002	Nutrient reduction - Lbs. nutrients avoided or removed	Enter the total amount of nutrients removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	One or more nutrient-specific parameters should be used in lieu of Activity completion. These parameters may support or provide additional support to the primary objective for this technique.
		HM003	Nutrient reduction - Lbs. P avoided or removed	Enter the total amount of phosphorus removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.
		HM004	Sediment reduction - Lbs. sediment avoided or removed	Enter the total amount of sediment removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	The activity completion parameter(s) should include lbs. of sediment avoided or removed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HM008	Pollutant reduction - Miles of hard surface improved	Enter the number of miles of roads or other hard surface improved to reduce runoff of sediment and other pollutants. This metric should not be used for roadway created or improved to increase recreational access.	The activity completion parameter(s) should include miles of hard surface improved. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR004	Upland or other habitat - Acres restored	Enter the number of acres restored. Habitat included in this metric has been restored to original (or target) habitat and ecosystem function. This metric should be used for habitats that span outside (or occur beyond) habitats captured by other metrics, such as upland forests.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR010	Riparian habitat - Acres restored	Enter the number of acres of riparian habitat restored to improve water quality. This may include riparian lake habitat (e.g., for stormwater pond plantings). Do not include acres where activities are fully captured by erosion control metrics (e.g., HR001, HR003).	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR013	Wetland and shoreline habitat - Acres restored	Enter the number of acres restored (i.e., the project footprint), including marshes, beaches, flooded forests, swamps, mudflats, estuarine habitats.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		PRM001	Land management - Acres with reduced impacts	Enter the number of acres with reduced impacts from land use following implementation.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		PRM002	Land management - Miles with reduced impacts	Enter the number of miles with reduced impacts from land use following implementation.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). If measures of area are not possible, miles may be used. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		RES002	Watershed management - Number of upgrades to stormwater and/or wastewater systems	Enter the number of upgrades implemented to storm or wastewater systems. Upgrades could include activities such as taking septic systems offline, installing box culverts, upsizing drainage pipes, adding underground gravel storage, or creating groundwater recharge opportunities.	The activity completion parameter(s) should include # upgrades to stormwater and/or wastewater systems (per upgrade type). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
		RES004	Pollutant reduction - CFU Reduction in bacterial loads	Enter the CFU reduction resulting from the activity.	One or more taxonomic-specific parameters should be used in lieu of Activity completion. These parameters may support the primary objective for this technique.

Approach	Technique	Metric	Name	Description	Tracking the metric	
Erosion and sediment control	Erosion and sediment control	HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.	
		HM002	Nutrient reduction - Lbs. nutrients avoided or removed	Enter the total amount of nutrients removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	One or more nutrient-specific parameters should be used in lieu of Activity completion. These parameters may support or provide additional support to the primary objective for this technique.	
		HM003	Nutrient reduction - Lbs. P avoided or removed	Enter the total amount of phosphorus removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.	
		HM004	Sediment reduction - Lbs. sediment avoided or removed	Enter the total amount of sediment removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	The activity completion parameter(s) should include lbs. of sediment avoided or removed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		HR001	Erosion control - Acres restored	Enter the area over which restoration activities are performed to reduce surface and/or stream channel erosion. Do not include additional acres of watershed expected to achieve reduced sediment pollution. Do not include acres counted toward the riparian restoration metric (HR010). Possible restoration activities include plantings, regrading streambanks, gully repair, etc.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		HR003	Stream restoration - Miles of stream channel protection installed	Enter the miles of stream channel protection installed. This should be selected for streambank and streambed protection projects (e.g., using riprap) conducted to reduce erosion and resulting sediment pollution.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). If measures of area are not possible, miles may be used. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
	Wastewater system improvements	Wastewater system improvements	HM001	Nutrient reduction - Lbs. N avoided or removed	Enter the total amount of nitrogen removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	Total nitrogen can be used as a parameter in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.
			HM002	Nutrient reduction - Lbs. nutrients avoided or removed	Enter the total amount of nutrients removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	One or more nutrient-specific parameters should be used in lieu of Activity completion. These parameters may support or provide additional support to the primary objective for this technique.
			HM003	Nutrient reduction - Lbs. P avoided or removed	Enter the total amount of phosphorus removed from the system (in lbs) or prevented from entering the system (in lbs/year). Use the notes field to specify the units of measurement being used.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support the primary objective for this technique.
		HR013	Wetland and shoreline habitat - Acres restored	Enter the number of acres restored (i.e., the project footprint), including marshes, beaches, flooded forests, swamps, mudflats, estuarine habitats.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		PRM001	Land management - Acres with reduced impacts	Enter the number of acres with reduced impacts from land use following implementation.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		PRM002	Land management - Miles with reduced impacts	Enter the number of miles with reduced impacts from land use following implementation.	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). If measures of area are not possible, miles may be used. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		RES002	Watershed management - Number of upgrades to stormwater and/or wastewater systems	Enter the number of upgrades implemented to storm or wastewater systems. Upgrades could include activities such as taking septic systems offline, installing box culverts, upsizing drainage pipes, adding underground gravel storage, or creating groundwater recharge opportunities.	The activity completion parameter(s) should include # upgrades to stormwater and/or wastewater systems (per upgrade type). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
RES004	Pollutant reduction - CFU Reduction in bacterial loads	Enter the CFU reduction resulting from the activity.	One or more taxonomic-specific parameters should be used in lieu of Activity completion. These parameters may support the primary objective for this technique.			
Substrate placement	Substrate placement	HR006	Oyster reef - acres restored	Enter the number of acres of oyster reef restored. When conducting oyster restoration, always also select the population metric "SP001 - Population - Density (# individuals/acre) - Oysters."	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.	
		SP001	Population - Density (Number of individuals/acre) - Oysters	Enter the density of oysters per acre for oyster reef restoration projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.	

Approach	Technique	Metric	Name	Description	Tracking the metric
Restore oyster habitat	Living shorelines	HR006	Oyster reef - acres restored	Enter the number of acres of oyster reef restored. When conducting oyster restoration, always also select the population metric "SP001 - Population - Density (# individuals/acre) - Oysters."	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR012	Shoreline protection - Miles of living shoreline installed	Enter the number of miles of living shoreline installed to buffer against shoreline erosion. Where applicable, use the notes field to indicate the width of the living shoreline (in feet). When conducting shoreline protection, always also select metric "HR014 - Habitat restoration - Land change rate."	The activity completion parameter(s) should include miles of living shoreline protection installed. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
		HR014	Habitat restoration - Land change rate	Enter the land change rate (acres/year) at the conclusion of monitoring, i.e., the ratio of (land to water)/time. Land change rates are calculated using changes in shoreline position, or multiplying average landward movement distance by the length of shoreline monitored. For activities that employ shoreline protection to reduce erosion, use pre-implementation data to update the metric baseline value in PIPER. This metric should be selected for all projects that aim to reduce shoreline erosion, but is not exclusive to such projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
		RES003	Community resilience - Number of residential, commercial, and public facilities benefiting	Enter the total number of residential, commercial, and public facilities benefiting from the project once the community resilience project is implemented. An example of the type of project where this metric would apply is a project whose primary benefit is enhanced hurricane protection for the community.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some secondary objectives for this technique.
	SP001	Population - Density (Number of individuals/acre) - Oysters	Enter the density of oysters per acre for oyster reef restoration projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.	
	Enhance spawning and reserves	HR006	Oyster reef - acres restored	Enter the number of acres of oyster reef restored. When conducting oyster restoration, always also select the population metric "SP001 - Population - Density (# individuals/acre) - Oysters."	The activity completion parameter(s) should include acres of management types (i.e., acres over which different management activities are performed) or acres restored (if only one management activity is performed). Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
SP001		Population - Density (Number of individuals/acre) - Oysters	Enter the density of oysters per acre for oyster reef restoration projects.	A parameter of the same name should be used in lieu of Activity completion. This parameter can be used to support some primary objectives for this technique.	
Planning (any technique)	PRM003	Planning - Number of management/governance plans developed	Enter the number of plans developed that had input from multiple stakeholders for regional planning efforts.	The activity completion parameter(s) should include number of plans. This parameter may support objectives that would be achieved by implementation of the plan, or may be able to support the objective Improve science-based decision-making (depending on the type of plan). It is important to also select any additional parameters that may be needed to capture all observational data collected for the plan. Success criteria for such parameters may be considered 'not applicable'. For example, parameters for an invasive species control plan may include activity completion (number of plans), plant composition and cover, and species density.	
	PRM005	Planning - Number of monitoring plans developed	Enter the number of monitoring plans developed. This metric captures the actual number of monitoring plans written, but not yet being implemented.	The activity completion parameter(s) should include number of monitoring plans. If the monitoring plan will be used to monitor the impacts of implementation-phase activities, this parameter may support the objective(s) to be achieved by implementation. This parameter may also be able to support the objective Improve science-based decision-making. It is important to also select any additional parameters that may be needed to capture all observational data collected to inform the monitoring plan and/or provide baseline data. Success criteria for such parameters may be considered 'not applicable'. For example, parameters for an invasive species monitoring plan that collects baseline data may include activity completion (number of monitoring plans), plant composition and cover, and species density.	
	PRM011	Planning - Number of E&D plans developed	Enter the number of E&D packages developed. The number of plans should equal the number of completed packages (e.g., 100% design, certified), not the number of documents.	The activity completion parameter(s) should include number of E&D packages. This parameter may support objectives that would be achieved by implementation of the design. It is important to also select any additional parameters that may be needed to capture all observational data collected to inform E&D. Success criteria for such parameters may be considered 'not applicable'.	
	PRM013	Planning - Number of environmental compliance documents completed	Enter the number of environmental compliance documents produced/compiled.	The activity completion parameter(s) should include number of environmental compliance documents. This parameter may support objectives that would be achieved by implementation of the activities for which compliance documents are being developed. It is important to also select any additional parameters that may be needed to capture all observational data collected to support the development of environmental compliance documents (e.g., species composition, area of habitat types). Success criteria for such parameters may be considered 'not applicable'.	
	COI001	Building institutional capacity - Number of FTE that successfully completed training	Enter the number of full-time equivalents (FTE) days of training for trainees. FTE refers to the ratio of paid hours during a period to # working hours in that period. May consider adding up part-time equivalents if the total amount is considered significant (e.g., 100 individuals who provide 100 1/4 FTE = 25 FTE days).	The number of people trained should be used as a parameter in lieu of Activity completion. This parameter can be used to support the objective Promote natural resource stewardship and environmental education.	
	COI002	Outreach/ Education/ Technical Assistance - Number of people reached	Enter the expected number of stakeholders in attendance at informational meetings, workshops, or events. Or, provide # of people who were directly involved in outreach, training and or technical assistance activities (this could be the number of participants in a workshop, classes, webinar, townhall, event, listeners, etc.).	The number of people reached and/or the number of reader impressions should be used as a parameter in lieu of Activity completion. These parameters can be used to support the objective Promote natural resource stewardship and environmental education.	
	COI003	Outreach/ Education/ Technical Assistance - Number of people enrolled - BMPs	Enter the number of unique people enrolled to implement BMPs and expected to adopt tools and other improved management practices, etc., as a result. Always also select HMO05 - Agricultural BMPs - acres under contracts/agreements.	The number of people enrolled should be used as a parameter in lieu of Activity completion. This parameter can be used to support the objective Promote natural resource stewardship and environmental education.	

Approach	Technique	Metric	Name	Description	Tracking the metric
Promote natural resource stewardship and environmental education		COI004	Outreach/ Education/ Technical Assistance - Number of users engaged online	Enter the number of users engaged in twitter, Facebook, blogs and other social media tools used to disseminate information about the project (include the type of social media tool and number and frequency of users). Note the URL address for each site and the unique visitors or users only.	An appropriate parameter for tracking the metric should be used in lieu of activity completion. This parameter can be used to support the objective Promote natural resource stewardship and environmental education.
		COI005	Volunteer participation - Number of volunteers participating	Enter the number of volunteers involved in the project. A list of volunteer names may help maintain a record of engagement. Where considered important, segmenting volunteers may be useful (e.g. age, gender, profession).	The number of volunteers should be used as a parameter in lieu of Activity completion. This parameter can be used to support the objective Promote natural resource stewardship and environmental education.
		COI006	Subgrants or agreements - Number of grants/agreements - dissemination of education/outreach materials	Enter the number of sub-grants or agreements to disseminate educational and outreach materials under the Council award. If possible, the metric for # people reached should also be selected (COI002).	
		COI007	Building institutional capacity - Number of participants that successfully completed training	Enter the expected number of participants that successfully attended and completed the training and attained restoration and conservation skills.	The number of people trained should be used as a parameter in lieu of Activity completion. This parameter can be used to support the objective Promote natural resource stewardship and environmental education.
		COI101	Economic benefits - Number of full-time permanent jobs created	Enter the number of full-time permanent jobs created that are directly attributable to the project or program implementation.	The number of positions filled should be used as a parameter in lieu of Activity completion. If the jobs involve environmental stewardship and/or education this parameter can be used to support the objective Promote natural resource stewardship and environmental education.
		COI102	Economic benefits - Number of part-time permanent jobs created	Enter the number of part-time permanent jobs created that are directly attributable to the project or program implementation.	The number of positions filled should be used as a parameter in lieu of Activity completion. If the jobs involve environmental stewardship and/or education this parameter can be used to support the objective Promote natural resource stewardship and environmental education.
		COI103	Economic benefits - Number of temporary jobs created	Enter the number of temporary jobs created that are directly attributable to the project or program implementation. These may be full-time or part-time jobs.	The number of positions filled should be used as a parameter in lieu of Activity completion. If the jobs involve environmental stewardship and/or education this parameter can be used to support the objective Promote natural resource stewardship and environmental education.
		RES001	Natural resource stewardship - Number of resource conservation measures implemented	Enter the number of resource conservation measures being implemented (or number of parties adopting each research conservation measure, if applicable). Resource conservation measures could include energy or water conservation measures, such as those resulting from an energy audit, renewable energy assessment, or water efficiency audit.	The number of entities enrolled should be used as a parameter. This parameter can be used to support the objective Promote natural resource stewardship and environmental education. One or more activity completion parameters may also be used, such as "quantity of shell recycled" for an oyster shell recycling program. Activity completion parameters are not sufficient to support the objective Promote natural resource stewardship and environmental education.
		RES005	Recreational improvements - Number of improvements to recreational resources	Enter the number of improvements to recreational habitat/resources resulting from the activity being completed as designed.	The activity completion parameter(s) should include number of each improvement type. Activity completion parameters are not sufficient to support the goals/objectives of this technique. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.
Improve science-based decision-making processes	Develop tools for planning and evaluation	PRM009	Research - Number of studies conducted	Enter the number of studies completed whose findings are reported to management. Value should include published data (either via your institution or by others using your data), metadata sets made available and published/unpublished datasets.	The activity completion parameter(s) should include number of completed studies. This parameter can be used to support the objective Improve science-based decision-making processes. ODP information provided on this parameter should indicate the types of studies to be conducted. It is important to also select any additional parameters that may be needed to capture all observational data collected for the study. Success criteria for such parameters may be considered 'not applicable'. For example, if a hydrologic modeling study will be performed under a project/program, parameters may include activity completion (number of studies), discharge, area of habitat types, elevation, sediment classification/composition, and precipitation.
		PRM010	Research - Number of studies used to inform mgmt.	Enter the number of studies completed whose findings are used to adapt management/ inform mgmt. decisions.	The activity completion parameter(s) should include number of completed studies. This parameter can be used to support the objective Improve science-based decision-making processes. ODP information provided on this parameter should indicate the types of studies to be conducted. It is important to also select any additional parameters that may be needed to capture all observational data collected for the study. Success criteria for such parameters may be considered 'not applicable'. For example, if a hydrologic modeling study will be performed under a project/program, parameters may include activity completion (number of studies), discharge, area of habitat types, elevation, sediment classification/composition, and precipitation.
		PRM012	Tool development for decision-making - Number of tools developed	Enter the number of tools developed. For example, tools can include numerical models, computer models, GIS models, and decision support systems.	The activity completion parameter(s) should include number of each tool developed. This parameter can be used to support the objective Improve science-based decision-making processes. It is important to also select any additional parameters that may be needed to capture all observational data collected for tool development. Success criteria for such parameters may be considered 'not applicable'.
		PRM004	Monitoring - Number of monitoring programs implemented	Enter the number of monitoring programs established or underway. Monitoring programs include any program with a written monitoring plan that is intended to track something other than the project's benefits (which should be monitored for all RESTORE-funded projects).	The activity completion parameter(s) should include number of monitoring programs. This parameter can be used to support the objective Improve science-based decision-making processes. It is important to also select any additional parameters that may be needed to capture all observational data collected under the monitoring programs (e.g., such a "Total nitrogen" for a water quality monitoring program). Success criteria for such parameters may be considered 'not applicable'.
		PRM006	Monitoring - Number of streams/sites being monitored	Enter the number of streams/sites being monitored. This metric should only be used for monitoring intended to track something other than the project's benefits (which should be monitored for all RESTORE-funded projects).	The activity completion parameter(s) should include number of streams/sites being monitored. This parameter can be used to support the objective Improve science-based decision-making processes. It is important to also select any additional parameters that may be needed to capture all observational data collected at the streams/sites (e.g., such a "Total nitrogen" for a water quality monitoring program). Success criteria for such parameters may be considered 'not applicable'.



Approach	Technique	Metric	Name	Description	Tracking the metric		
Increase environmental monitoring capacities	Increase environmental monitoring capacities	PRM007	Monitoring - Acres being monitored	Enter the number of acres being monitored using standard mapping tools/GIS or other methods. This metric should only be used for monitoring intended to track something other than the project's benefits (which should be monitored for all RESTORE-funded projects). Specify monitoring method(s) in the notes field.	The activity completion parameter(s) should include number of acres monitored. This parameter can be used to support the objective Improve science-based decision-making processes. It is important to also select any additional parameters that may be needed to capture all observational data collected through monitoring (e.g., such a "Total nitrogen" for a water quality monitoring program). Success criteria for such parameters may be considered 'not applicable'.		
		PRM008	Monitoring - Miles being monitored	Enter the number of miles monitored as a direct result of the project. This metric should only be used for monitoring intended to track something other than the project's benefits (which should be monitored for all RESTORE-funded projects). This metric should be selected for in-stream habitat restoration and shoreline restoration projects. Please indicate the width of the area being monitored in the notes field. For beach nesting birds, includes linear length of beaches or circumference of islands where suitable habitat has been confirmed.	The activity completion parameter(s) should include number of miles monitored. This parameter can be used to support the objective Improve science-based decision-making processes. It is important to also select any additional parameters that may be needed to capture all observational data collected through monitoring (e.g., such a "Total nitrogen" for a water quality monitoring program). Success criteria for such parameters may be considered 'not applicable'.		
		PRM014	Restoration planning/design/permitting - Increased Capacity - % increase in analytical capacity	Enter the % increase in analytical capacity resulting from Project/Program implementation. Values are entered as percentages; enter whole number percentages representing anticipated increases over a baseline of zero (e.g., baseline is entered as zero percent, and target value is entered as a 30% increase over baseline). In the notes field, please indicate the type of analytical capacity being increased; additional details can also be provided regarding baseline and target values (e.g., Baseline for water quality analysis is 100 samples per month; anticipated target value represents an increase to 130 samples per month).	The activity completion parameter(s) should provide information needed to calculate the increase in analytical capacity (e.g., samples analyzed per month). Such parameters can be used to support the objective Improve science-based decision-making processes.		
	Comprehensive planning		See Planning				
Restore and revitalize the Gulf economy	Increase public access to natural resources and enhance recreational experiences	RES005	Recreational improvements - Number of improvements to recreational resources	Enter the number of improvements to recreational habitat/resources resulting from the activity being completed as designed.	The activity completion parameter(s) should include number of each improvement type. Activity completion parameters are typically not sufficient to support the goal Restore and revitalize the Gulf economy. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.		
		RES006	Recreational improvements - Acres acquired for public access/recreational use	Enter the total acres acquired for public access/recreational use.	The activity completion parameter(s) should include the acres acquired. Activity completion parameters are typically not sufficient to support the goal Restore and revitalize the Gulf economy. An activity completion parameter is not necessary if another selected parameter already captures the data collection activities needed to track the metric.		
		RES007	Recreational improvements - Number of visitors increased	Enter the increase in public use as a result of the activity.	The number of annual visitors should be used as a parameter in lieu of Activity completion. This parameters may be able to support the goal Restore and revitalize the Gulf economy.		
	Restore and revitalize the Gulf economy	Restore and revitalize the Gulf economy	COI002	Outreach/ Education/ Technical Assistance - Number of people reached	Enter the expected number of stakeholders in attendance at informational meetings, workshops, or events. Or, provide # of people who were directly involved in outreach, training and or technical assistance activities (this could be the number of participants in a workshop, classes, webinar, townhall, event, listeners, etc.).	The number of people reached and/or the number of reader impressions should be used as a parameter in lieu of Activity completion. These parameters may be able to support the goal Restore and revitalize the Gulf economy.	
			COI004	Outreach/ Education/ Technical Assistance - Number of users engaged online	Enter the number of users engaged in twitter, Facebook, blogs and other social media tools used to disseminate information about the project (include the type of social media tool and number and frequency of users). Note the URL address for each site and the unique visitors or users only.	An appropriate parameter for tracking the metric should be used in lieu of activity completion. This parameter may be able to support the goal Restore and revitalize the Gulf economy.	
			COI101	Economic benefits - Number of full-time permanent jobs created	Enter the number of full-time permanent jobs created that are directly attributable to the project or program implementation.	The number of positions filled should be used as a parameter in lieu of Activity completion. This parameter can be used to support the goal Restore and revitalize the Gulf economy.	
		Restore and revitalize the Gulf economy	Restore and revitalize the Gulf economy	COI102	Economic benefits - Number of part-time permanent jobs created	Enter the number of part-time permanent jobs created that are directly attributable to the project or program implementation.	The number of positions filled should be used as a parameter in lieu of Activity completion. This parameter can be used to support the goal Restore and revitalize the Gulf economy.
				COI103	Economic benefits - Number of temporary jobs created	Enter the number of temporary jobs created that are directly attributable to the project or program implementation. These may be full-time or part-time jobs.	The number of positions filled should be used as a parameter in lieu of Activity completion. This parameter can be used to support the goal Restore and revitalize the Gulf economy.
				COI104	Economic benefits - Number of local contracts	Enter the number of contracts or agreements anticipated with individuals or companies that reside in, are headquartered in, or are principally engaged in business in a Gulf Coast State.	The activity completion parameter(s) may include number of local contracts and/or costs per local contract. These parameters may be able to support the goal Restore and revitalize the Gulf economy.
				COI105	Economic benefits - % costs contracted to existing local organizations	Enter the percentage of total program costs anticipated to be contracted with companies that reside in, are headquartered in, or are principally engaged in business in a Gulf Coast State.	The costs going to existing local organizations should be used as a parameter in lieu of Activity completion. This parameter may be able to support the goal Restore and revitalize the Gulf economy.
	COI106	Economic benefits - Sacks of oysters relayed	Enter the number of sacks of oysters relayed from donor sites to increase productivity on harvestable reefs.	The Activity completion parameter(s) should include sacks of oysters relayed. This parameter may be able to support the goal Restore and revitalize the Gulf economy. Other parameters that can be included to support the economic goal include sacks of oysters harvested and total annual sales.			
	COI107	Economic benefits - Linear feet of transportation channel improved	Enter the linear feet of channel restored to design depths for transportation purposes.	The Activity completion parameter(s) should include linear feet of channel improved. This parameter may be able to support the goal Restore and revitalize the Gulf economy. Other parameters that can be included to support the economic goal include total shipping traffic, total cargo, and safely navigable days per year.			