

California MLPA North Coast Study Region
Round 2: Description of Marine Protected Areas (MPAs) in Sapphire Draft MPA Proposal 1
Spreadsheet Created May 27, 2010

Name of Array: Sapphire Draft MPA Proposal 1
Author: NCRSG Sapphire Gem Group
Proposal Submitted: May 20, 2010

Total number of MPAs: 20
 Number of SMRs: 6
 Number of SMCAs: 11
 Number of SMPs: 1
 Number of SMRMAs: 2
 Number proposing tribal us: 11

Northern Bioregion: California/Oregon border to Mattole River
 Southern Bioregion: Mattole River to Alder Creek near Point Arena

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Preliminary Level of Protection*	Propose Tribal Uses?	Proposed Take Regulations
Pyramid Point SMR	1001296	Northern	North: 42 00.00' lat South: 41 57.00' lat (southern shore of Prince island) East: 124 13.00' long West: State water boundary	SMR	Very High	No	Take of all living marine resources is prohibited.
Pyramid Point SMCA	1001297	Northern	North: 42 00.00' lat South: 41 57.00' lat -South shore of Prince Island West: 124 13.00' long East: Mean high tide line	SMCA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. The recreational take of surf and night smelt by dip net; and surf and night smelt by cast net. 2. The commercial take of surf and night smelt by dip net and cast net. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Wilson Rock SMCA	1001303	Northern	North: 41 35.80' West: State Waters Boundary South: 41 33.60' East: Mean High Tide Boundary	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; Dungeness crab by diving; surf and night smelt by dip net; and surf and night smelt by cast net. 2. The commercial take of Dungeness crab by trap; and surf and night smelt by dip net and cast net. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Reading Rock SMR	1001337	Northern	North: 41 22.50' lat South: 41 20.00' lat East: 124 08.00' long West: the state water boundary	SMR	Very High	No	Take of all living marine resources is prohibited.

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Pyramid Point SMR	Allow for co-management with tribes	Clustered with the nearshore SMCA to capture beach, rocky shore, and shallow soft bottom replicates at the moderate high level of protection. Includes a unique off-shore island (Prince Island) and several off-shore rocks important for seabird colonies and Aleutian cackling geese. Contains virtually un-fished shallow rocky reef habitat. The combination also provides 16.28 square miles of protected forage habitat for pinnipeds and cetaceans.	Designed to meet DFG feasibility criteria. Maintains tribal resource uses and allows for co-management opportunities. Provides clear and enforceable boundaries with abundant coastal access and vantage points. Allows nearby vessel access (Port of Brookings, OR) for study/enforcement. Located on Oregon Border outside of 10-mile safety zone. Remote location substantially reduces socioeconomic impacts to sport and commercial fisheries in California's highest poverty level area.
Pyramid Point SMCA	Allow for co-management with the Yurok tribe.	Clustered with the offshore SMR to capture beach, rocky shore, and shallow soft bottom habitat replicates at the moderate high level of protection (TBD). Contains virtually shallow rocky reef habitat virtually un-fished by Crescent City. Includes a large and unique off-shore island (Prince Island) and several off-shore rocks important for sea bird colonies and Aleutian cackling geese. The combination also provides 16.28 square miles of protected forage habitat for pinnipeds and cetaceans.	Designed to meet DFG feasibility criteria while allowing for Native American resource use protection and co-management opportunities. Provides clear and enforceable boundaries with abundant coastal access and vantage points. Allows nearby vessel access (Port of Brookings, OR) for study/enforcement. Located on Oregon Border outside of 10-mile safety zone. Remote location substantially reduces socioeconomic impacts to sport and commercial fisheries in California's highest poverty level area.
Wilson Rock SMCA	Allow for co-management with the Yurok tribe.	Protects a variety of habitats for nearshore fish and invertebrates and decreases vessel activity near marine mammal haul out sites and bird colonies. Contains False Klamath Rock and is considered important for gray whale and pinniped foraging habitat. Sited within Redwood National Park boundaries and co-located with an Areas of Special Biological Significance. Current water quality monitoring and research activities occur on-site.	The intent is to allow both tribal uses and some commercial and recreational uses. The MPA poses disproportionate economic impacts to the commercial rockfish fishermen. The design is not well supported in Del Norte County, but is considered a "trade-off" regarding other proposals in the 10-mile safety zone. The north boundary of the MPA accommodates sport and commercial fishermen, edible seaweed harvesters and divers in light of otherwise limited access from Highway 101. The design considers the important Crescent City commercial crab fishery. Excludes False Klamath or Wilson Beach to the north because of otherwise limited and available coastal access for sport and commercial fishermen, edible seaweed harvesters and divers.
Reading Rock SMR	Allow for co-management with the Yurok tribe.	Above a minimum size SMR to be part of the backbone. Captures deep soft habitat and hard 30-100 m habitats at the very high level of protection. Clustered with Reading Rock SMCA adjacent to Redwood National and State Park lands. Combined with the Reading Rock SMCA, this reserve protects diverse habitats including beaches, soft and hard bottom habitats.	Considers Yurok ancestral territory and cultural uses of Reading Rock and surrounding waters. Shape modified to conform with DFG feasibility criteria. Reduces socioeconomic impacts for the Crescent City Dungeness crab fishery and Trinidad Harbor commercial and sport rock fishermen and divers.

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Reading Rock SMCA	1001338	Northern	North: 41 22.50' lat South: 41 20.00' lat West: 124 08.00' long East: Mean high tide line	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; Dungeness crab by diving; surf and night smelt by dip net; and surf and night smelt by cast net. 2. The commercial take of Dungeness crab by trap; and surf and night smelt by dip net and cast net. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
North Humboldt Bay SMRMA	1001471	Northern	None specified	SMRMA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
South Humboldt Bay SMRMA	1001443	Northern	The North boundary of the Marine Reserve is the 40 43.00' West to the sand spit East to the 124° 14' longitudinal line South is amorphous including but not limited to; South Port Landing, and points east.	SMRMA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
South Cape Mendocino SMR	1001330	Northern	North: 40 26.00' (or mouth of river as landmark) West: State water boundary South: 40 24.50' East: mean high tide line	SMR	Very High	No	Take of all living marine resources is prohibited.

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Reading Rock SMCA	Allow for co-management with the Yurok tribe.	Captures beaches and soft 0-30 m habitat. Important for beach habitat spacing.	The intent is to allow both tribal uses and some commercial and recreational uses. It is also intended to serve as part of the backbone. Considers Yurok ancestral territory and cultural uses of Reading Rock and surrounding waters. Shape modified to conform with DFG feasibility criteria. Reduces socioeconomic impacts for the Crescent City Dungeness crab fishery and Trinidad Harbor commercial and sport rock fishermen and divers.
North Humboldt Bay SMRMA	Hunting is allowed. Allow for co-management with the tribes. Allow for all current oyster aquaculture permits. Allow for restoration permits in the area.	Protect many species that use the mud flats, deeper channels and eel grass habitats. Arcata Marsh and Wildlife Sanctuary attracts hundreds of migratory and local shore birds that will benefit from protecting their feeding and breeding sites. Co-located with the Sanctuary and will benefit the regulatory requirements. Captures a very rare site where both White and Green Sturgeon, a threatened species, mix and feed.	The intent is to prohibit all extraction except tribal uses. The Wiyot and Blue Lake Rancheria tribes are in this area. Modified MPA boundaries b/c of clam leases.
South Humboldt Bay SMRMA	Hunting is allowed. Allow for co-management with the tribes.	Critical habitat for seabirds, migratory waterfowl, plants and Harbor Seals and other marine mammals. Important nursery for marine and estuary fishes, including halibut, leopard sharks and rays. Key points for the millions of migratory birds that rely on the Pacific Flyway. More than 200 bird species, including 80 kinds of water birds and four endangered species, regularly feed, rest, or nest on the refuge or other areas around the bay. Provides habitat for apprx. 100 species of fish, many contribute to sport/commercial fisheries and provides habitat for steelhead, Coho, and Chinook salmon.	The intent is to prohibit all extraction except tribal uses. Estuary habitat is in unique close proximity to a Wildlife Refuge on adjacent to the South Bay. Located in the South portion of Humboldt Bay, an area of the Bay that has little to no socioeconomic impacts for the community. Extensive opportunities for ongoing research and public education including already existing activities by local schools, universities and interest groups.
South Cape Mendocino SMR	None specified	Captures off shore rocks, rocky shores, soft bottom habits, beaches, 0-30 hard proxy, 30-100 hard/soft. Aids in protection of Pinnipeds haul outs and seabird colonies. Meets MLPA Goals 1, 2, 3, 4, 5, 6.	One of three MPAs in the bioregion divide area that strive for balance of meeting habitat guidelines for 'backbone', community input, cross interest support, and reductions of socioeconomic impacts. While neither the Mattole Canyon SMR or the Petrolia Lighthouse SMR are preferred size, the proximity of the two MPAs to each other should function effectively as a cluster. North boundary landmark River mouth, 'can live with' from fisherman - safety concerns addressed, furthest rocky fishing habitat from Eureka Harbor replaces alternative SMR proposal to north that had greater socioeconomic impacts & safety concerns for recreational fisherman. Southern boundary 'can live with' from Mattole/Petrolia community. Eastern offshore boundary allows for safe shore access for recreational and tribal uses. North of MPA, Sugar Loaf Rock proposed as Special closure. MPA close to meeting spacing guidelines, possible exception due to lg stretch of sandy areas and avoidance of significant socioeconomic impacts.

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Mattole Canyon Offshore SMR	1001341	Northern	North: 40° 20.00' West: the state water boundary South: 40° 17.00' East: 124° 22.00'	SMR	Very High	No	Take of all living marine resources is prohibited.
Petrolia Lighthouse SMR	1001555	Southern	North: 40° 14.50' South: 40° 12.00' West: The state water boundary East: Mean high tide line	SMR	Very High	No	Take of all living marine resources is prohibited.
Big Flat SMCA	1001360	Southern	North: 40° 10.00' South: 40° 07.50' East: Mean high tide line West: State waters	SMCA	Moderate High	No	The take of all living marine resources is prohibited except: 1. The recreational take of salmon by troll. 2. The commercial take of salmon by troll; and Dungeness crab by trap.
Vizcaino SMCA	1001522	Southern	North: 39° 48.50' lat South: 39° 43.00' lat East: Line drawn due south from Vizcaino Rock West: State water boundary	SMCA	Moderate High	No	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; and Dungeness crab by diving. 2. The commercial take of salmon by troll; and Dungeness crab by trap.

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Mattole Canyon Offshore SMR	None specified	Captures 0-30 hard proxy, 15m hard, 30-100 hard, 100-200 hard, 100-200 hard/soft, >200 hard/soft meets MLPA Goals 1, 3, 4, 5, 6.	One of three MPAs in the bio-region divide area that strive for balance of meeting habitat guidelines for 'backbone', community input, cross interest RSG member support, and reductions of socio-economic impacts. While neither the South Cape Mendocino SMR or the Petrolia Lighthouse SMR MPAs are preferred size, the proximity of the South Cape Mendocino SMR and Petrolia Lighthouse SMR to each other should function effectively as a cluster. Captures unique canyon habitat, MPAnlarged to capture 0-30 proxy. Offshore East longitude line to allow for shore-based recreational and tribal uses, reducing socio-economic impacts while capturing key guideline habitats.
Petrolia Lighthouse SMR	None specified	The Petrolia Lighthouse SMR captures offshore rocks, rocky shores, kelp, hard 0-30m and 30-100m habitat, offshore rocks and includes all levels of soft habitat. Additionally, important seabird and sea lion rookeries are protected. Meets MLPA goals 1, 2, 3, 4, 5, 6	One of three MPAs in the bio-region divide area that strive for balance of meeting habitat guidelines for 'backbone', community input, cross interest RSG member support, and reductions of socio-economic impacts. While neither the South Cape Mendocino SMR or the Mattole Canyon SMR MPAs are preferred size, the proximity of the South Cape Mendocino SMR and Mattole Canyon SMR to each other should function effectively as a cluster. Area of significant biological significance. Southern boundary placed off minute longitude line to give allowances for Rogers Break ~40.12'6 which minimizes socio-economic impacts to Shelter Cove harbor. 'Can live with' from Shelter Cove community.
Big Flat SMCA	None specified	Captures rocky shores, beaches, all levels of soft habitat, >200 hard. This SMCA is specifically designed to enhance and preserve rock fish habitat while at the same time posing, due to its remote location, little or no socioeconomic impacts to commercial or recreational fishermen. Meets MLPA goals 1, 2, 3, 4, 5, 6	Remote location with little onshore fishing. Captures existing Essential Fish Habitat Conservation Area. Canyon upwelling exists here, as do rocky shorelines and kelp beds. Meets size guidelines and replicates hard bottom nearshore habitat to the south. Northern boundary 40 10"N recognized landmark in current regulations, aids to ease of enforcement feasibility. Southern boundary, placed off minute longitude line to give allowances for Rogers Break ~40.12'6 which minimizes socio-economic impacts, is approximately 10 miles safety zone from Shelter Cove harbor, and is a 'can live with' from Shelter Cove community, that strives for balance of meeting habitat guidelines to supplement 'backbone', community input, cross interest RSG member support, and reductions of socio-economic impacts. The intent is to prohibit all extraction except tribal uses. Surfing location. Area of significant biological significance.
Vizcaino SMCA	None specified	Intended for supplementing the backbone. It captures most habitats except deep rock. It is the only MPA that captures kelp. Also capture the hard 0-30 m proxy. Minimizes human activity to Pinniped haul-out and seabird colonies	The southeastern boundary on the Viscano SMCA is designed for the nearshore commercial fishery and sport fishing in addition to urchin harvest because of its protection from NW winds (Jim Bassler).

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Ten Mile SMR	1001527	Southern	North: 39° 35.20' South: River mouth approx 39° 33.23' West: State waters line Note: the boundary between the SMCA and SMR was drawn to accommodate nearshore tribal uses and crabbing. The intent is to work with DFG to create a more feasible boundary.	SMR	Very High	No	Take of all living marine resources is prohibited.
Ten Mile SMCA	1001528	Southern	North: 39° 35.20' South: River mouth approx 39° 33.23' East: Mean high tide line Note: the boundary between the SMCA and SMR was drawn to accommodate nearshore tribal uses and crabbing. The intent is to work with DFG to create a more feasible boundary.	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; and Dungeness crab by diving. 2. The commercial take of Dungeness crab by trap. 3. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Ten Mile Estuary SMCA	1001447	Southern	headwaters of 10 mile starts on Valley Rancheria (Valerie's tribe). Estuary extends upstream 1.5 miles from the mouth of Ten Mile River.	SMCA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.

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Ten Mile SMR	None specified	This area contains one of the widest possible ranges of habitat representation. This MPA has great diversity in unique marine habitats including; exposed high energy rocky shoreline, sand and gravel beaches, offshore islets, surf grass, kelp beds, hard and soft substrates, while interfacing with the complex estuarine habitats consisting of eelgrass beds, marshlands and mudflat ecosystems. This SMR helps maintain biodiversity in fish, invertebrates, seabirds and marine mammals associated with the protection of the ecosystem.	<p>Socioeconomic impact: significant negative impact to the sea urchin industry, moderate negative impact on live fishing and crabbing; potential negative impact on seaweed harvesting due to effort shift if other areas are closed to harvesting; minimal impact on abalone harvesting.</p> <p>Placing this reserve 41 miles N of the Pt. Arena SMR minimizes the cumulative effects.</p> <p>Located at the North end of this MPA is an established marine monitoring site, that along with numerous coastal access points makes it easy for research, recreation and enforcement possible. (G5)</p>
Ten Mile SMCA	Allow for co-management with tribes.	This area contains one of the widest possible ranges of habitat representation. This MPA has great diversity in unique marine habitats including; exposed high energy rocky shoreline, sand and gravel beaches, offshore islets, surf grass, kelp beds, hard and soft substrates, while interfacing with the complex estuarine habitats consisting of eelgrass beds, marshlands and mudflat ecosystems. This SMR/SMCA cluster helps maintain biodiversity in fish, invertebrates, seabirds and marine mammals associated with the protection of the ecosystem.	<p>The intent is to allow both tribal uses and some commercial and recreational uses.</p> <p>Sapphire members believe this MPA should capture hard 0-30 m</p> <p>Socioeconomic impact: significant negative impact to the sea urchin industry, moderate negative impact on live fishing and crabbing; potential negative impact on seaweed harvesting due to effort shift if other areas are closed to harvesting; minimal impact on abalone harvesting. Placing this reserve 41 miles N of the Pt. Arena SMR minimizes the cumulative effects. Located at the North end of this MPA is an established marine monitoring site, that along with numerous coastal access points makes it easy for research, recreation and enforcement possible. (G5)</p>
Ten Mile Estuary SMCA	Allow for co-management with tribes.	Supports local fish and shellfish populations that are harvested commercially and recreationally. Serves as spawning and nursery grounds for populations that are harvested offshore. Protects larvae and enhances reproductive capacity of many invertebrate species such as Dungeness crab. Expands on long-term protections for complex estuarine habitats, including eelgrass beds, marshlands and mudflat ecosystems. Supports current DFG salmon conservation projects while protecting nursery for federal/state listed threatened anadromous fish including Coho, King and Steelhead salmon.	<p>The intent is to prohibit all extraction except tribal uses.</p> <p>Has numerous coastal access points making it easy for research, long-term monitoring, recreation and enforcement.</p>

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Mackerricher SMCA	1001568	Southern	None specified	SMCA	Low	No	The take of all living marine resources is prohibited except: 1. The recreational take of Finfish, red abalone, chiones, clams, cockles, rock scallops, native oysters, crabs, lobster, ghost shrimp, sea urchins, mussels and marine worms except that no worms may be taken in any mussel bed unless taken incidentally to the take of mussels.. 2. The commercial take of Finfish, crabs, ghost shrimp, jackknife clams, sea urchins, squid, algae except giant kelp and bull kelp and worms except that no worms may be taken in any mussel bed, nor may any person pick up, remove, detach from the substrate any other organisms, or break up, move or destroy any rocks or other substrate or surfaces to which organisms are attached. In addition, commercial hand harvest of edible seaweeds and nearshore fishing.
Point Cabrillo SMCA	1001534	Southern	This area is bounded by the mean high tide line, a distance of 1000 feet seaward of mean lower low water, and the following points: 39 21.24' N. lat. 123 49.25' W. long.; 39 21.33' N. lat. 123 49.64' W. long.; 39 20.66' N. lat. 123 49.68' W. long.; and 39 20.57' N. lat. 123 49.27' W. long. North and south boundaries match those of Pt. Cabrillo State Park.	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The commercial take of urchin by diving; and finfish and marine aquatic plants. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.

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MacKerricher SMCA	None specified	Access, easy to get in the water, campground, diving program. Goal 3 MPA in an effort to address State Park's interest in an SMP in this area. This area has been an important area for the Commercial Hand Harvest of Edible Seaweeds for almost 30 years. This location is particularly important because it has relatively easy access from shore, since the bluffs are not high. Easy access to edible seaweed harvest areas is relatively rare on the Mendocino coast.	<p>The group did not have sufficient time to consider the designation or regulations for this MPA; it represents the interest of keeping this MPA on the table for discussion in Round 3. Sapphire members agree it requires additional thought and stakeholder input.</p> <p>Regarding the reference to "Commercial Hand Harvest of Edible Seaweed" in the proposed allowed uses field. It was identified as an important issue to consider when designing this MPA. The phrase "Commercial Hand Harvest of Edible Seaweeds" while currently not a formal definition in DFG Regulations, efforts are underway by the Seaweed Stewardship Alliance in conjunction with a team of scientists to create more comprehensive regulations and guidelines for California, Oregon and Washington. In addition, the existing regulations lists only the commercial harvest of Bull kelp and and Giant kelp as no take. Not allowing take of only these two species is not feasible (see Larry Knowles for more info).</p>
Point Cabrillo SMCA	Allow for co-management with tribes.	Useful spot, view fish, people can get in the water to enjoy, goal 3 MPA	The intent is to allow both tribal uses and some commercial and recreational uses.

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Big River Estuary SMP	1001464	Southern	From the old bridge abutment (or kiosk ?), then upstream five miles.	SMP	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of Dungeness crab by trap; Dungeness crab by hoop net; and Dungeness crab by diving. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Albion River Estuary SMCA	1001469	Southern	From Schooner's Landing Campground east three miles in tidal waters of estuary.	SMCA	Undetermined	Yes	The take of all living marine resources is prohibited except: 1. The recreational take of surfperch by hook and line from shore; Dungeness crab by hoop net; and surfperch by canoe or kayak. 2. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.
Navarro River Estuary SMCA	1001470	Southern	Mouth of the Navarro to three miles inland in estuary waters effected by tidal influence.	SMCA	Undetermined	Yes	Take of all living marine resources is prohibited except: 1. Traditional, non-commercial, tribal gathering, subsistence, harvesting, ceremonial and stewardship activities.

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Big River Estuary SMP	Allow for co-management with tribes.	Estuary habitat preserved; pristine eel grass beds; anadromous fish refugia. Satisfies Goals 1,2,3,4,6.	<p>The intent is to allow both tribal uses and some recreational uses.</p> <p>Within State Parks boundaries. Key recreational kayaking area. A boost to local economy because estuary is protected. Shorebird habitat protected.</p> <p>Historical steelhead fishing spot</p>
Albion River Estuary SMCA	Allow for co-management with tribes.	Estuary protection (Goals 1, 2, 3, 4 & 6). Eel grass and anadromous fish refugia.	<p>The intent is to allow both tribal uses and some commercial and recreational uses.</p> <p>Recreational Kayaking area protected. Shorebird habitat protected. Boost to local economy for scenic and recreational attributes.</p>
Navarro River Estuary SMCA	Allow for co-management with tribes.	Estuary protection (Goals 1.2.3.4 & 6) All species protected as well as prime shorebird habitat and anadromous fish refugia.	<p>The intent is to prohibit all extraction except tribal uses.</p> <p>Recreational kayaking and canoeing destination. Attraction to easy proximity to State Park beach and shorebird and mammal viewing.</p>

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