

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MLPA Study Region: South Coast
Name of Array: Lapis 1 (Round 2) 090528
Author: Lapis Gem Group
Revised: June 10, 2009

Total number of MPAs/closures: 54
 Number of SMRs: 34
 Number of SMCAs: 13
 Number of SMPs: 4
 Number of SMRMAs: 1
 Number of Military Closures: 2

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection	Proposed Take Regulations	Other Proposed Regulations
Point Conception/Humqaaq SMR	66716	North Mainland	North/West: 34 27' and MHTL South: State waters East: 120 24'	SMR	very high	All take is prohibited	None Specified
Point Conception/Humqaaq SMR (continued)							
Coal Oil Point SMR	66729	North Mainland	North: MHTL South: State waters line East: Landmark = Campus Point/Goleta Point West: 119 53.5'	SMR	very high	All take is prohibited	None Specified
Goleta Slough SMR	67106	North Mainland	Extent of estuary in state waters	SMR	very high	All take is prohibited	None Specified
Carpinteria Estuary SMR	67107	North Mainland	Extent of estuary in state waters	SMR	very high	All take is prohibited	None Specified

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

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Point Conception/Humqaaq SMR	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-2,O-3,O-4)	Point Conception SMR replicates most key habitats, (only lacking deepest canyon hard and soft), in a pristine wilderness setting matched only by the Channel Islands, with large nearshore and offshore rocky reefs, hard and soft bottom to 100 meters, oil seeps, strong upwelling, larvae retention from the confluence of two currents with persistent phytoplankton primary production, kelp and surf grass, supporting a high historic and current diversity and abundance of most native marine species including great whites, sea otters, squid spawning and juveniling marine mammal haulouts/rookeries; it is the northern end of the SAT north bioregion, supplying larvae to the Northern Channel Islands and receiving larvae from the central coast ecosystem.	Boundary falls between two similar reefs, allows for comparative study reduces socioeconomic impact. Backbone network reserve. Primary goals and objectives: G 1: O 1, 2, 3, 4; G 2: O 2, 3; G 4: O 1, 2; G 5: O 3; G 6: O 3, 4
Point Conception/Humqaaq SMR (continued)		It is lightly populated on shore, unpolluted, with limited private access, and far from the nearest Santa Barbara port and the small boat launch at Gaviota, ideal for both preservation and conservation. Prime for eco-tour opportunities.	
Coal Oil Point SMR	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-2,O-3,O-4)	Multiple key habitats including shallow and deep reefs and sandy bottom, kelp, surf grass, oil seeps. High current area, coastal pelagics, and avoid some high use areas to east. Chumash cultural sites, wind driven upwelling, get some estuary mouth west side of Coal Oil Point, get some connectivity between estuaries, adjacent to Coal Oil Point Reserve w/enforcement/monitoring, existing baseline data extensive, UCSB immediately adjacent will facilitate monitoring and education, study and help in enforcement, excellent public access, surfing, kayaks and swimming	There is less socioeconomic impact if place an MPA here as opposed to in Naples. Determined primary goals and objectives as follows: G1 O 3,4; G2 O 2,3; G3 O 1,2,3 (very important objectives); G4 O 1,2; G5 O 1; G6 O 3,4
Goleta Slough SMR	G1: (O-1,O-3,O-4,O-5), G3: (O-2), G4: (O-1,O-2), G6: (O-3,O-4)	Change from an SMCA to an SMR to increase protection. There is some dredging that happens there, some practice training for oil spills, want to simplify regulations and increase protection, it isn't meant to interfere w/fire control and clean seas program, may be able to use protection as opportunity to have discussions about improving water quality in area.	None specified
Carpinteria Estuary SMR	G1: (O-1,O-3,O-4,O-5), G2: (O-3), G4: (O-1,O-2), G6: (O-3,O-4)	Salt marsh, cultural sites, migratory waterfowl/bird habitat, nursery area for sharks and other fish.	There is an issue w/university not wanting to have additional red tape to getting take permits for research, claim there is already sufficient protection due to limited access and no fishing allowed from university land. Local homeowners may not want an MPA here. It's not harmful to have another layer of oversight in something as valuable as an estuary. There is also a lot of runoff from greenhouses in the watershed

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Mugu Lagoon SMRMA	67108	North Mainland	Extent of estuary in state waters	SMRMA	very high	All commercial and recreational take is prohibited except current allowed waterfowl hunting.	None Specified
Lachusa SMCA	66740	North Mainland	North: MHTL South: State waters West: -118 53.5' East: -118 50.5'	SMCA	high	"All recreational take is prohibited except pelagic finfish (spearfishing), Pacific bonito (spearfishing), white seabass (spearfishing), coastal pelagic finfish (dip net), jumbo squid (hook and line), and market squid (dip net). All commercial take is prohibited except market squid (pelagic seine), swordfish (harpoon) and coastal pelagic finfish (pelagic seine)."	Motorized craft shall not be used to take any of the allowed species.
Point Dume SMR	66763	North Mainland	North: MHTL South: state waters line West: 118 50.5' East: 118 47' from state waters north to corner of 118 47' and 34 01' and then diagonally northwest towards corner of 118 48' and 34 02'	SMR	very high	All take is prohibited	None Specified
Malibu Creek Estuary SMR	67109	North Mainland	Extent of estuary in state waters	SMR	very high	All take is prohibited	None Specified

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

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Mugu Lagoon SMRMA	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	Protecting the largest estuarine lagoon in southern California. High concentration of birds and bird species, marine and estuarine fish.	There is contaminated sediment in the lagoon, and runoff from surrounding agriculture activity.
Lachusa SMCA	G1: (O-2,O-3), G2: (O-4), G3: (O-1), G4: (O-1,O-2), G5: (O-2,O-4), G6: (O-3,O-4)	Completes Dume preferred size cluster, sited to include replicates of all key habitats but one at outer limit of SAT spacing guideline to north, capturing persistent kelp, rocky and soft intertidal and subtidal, surf grass. Allows some take but preserving a moderate high LOP. Coincides with ASBS, state and county parks and Chumash village onshore and subtidal sites and Chumash desires for a contiguous MPA, while allowing for some culturally significant consumption using traditional methods.	May 21 - Chumash Recommend that the SMCA is co-managed with Chumash government entities or NGO's Ventura Coast Keeper MOU's with DFG and State Parks that: 1. Acknowledge the MPA/SMCA as Chumash co-managed MPA. 2. Shares MPA education and outreach authority or that tasks Chumash People with MPA education and outreach. 3. Acknowledge/permits Chumash traditional methods of take that are permissible/fit within existing DFG regulations as allowed methods of take in accordance with the levels of protection in the MPAs. 4. Monitoring assistance. Completes Point Dume SMR cluster, available replicates in preferred size. Primary goals and objectives: G1: O 2, 3; G2: O 4; G3: O1; G4: O 1, 2; G5: O 2, 4; G6: O 3, 4
Point Dume SMR	G1: (O-1,O-2,O-4), G3: (O-1), G4: (O-1,O-2), G6: (O-3,O-4)	Dume cluster sized and located to replicate all but one multiple key habitat in a single MPA at the outer limit of spacing guidelines to north (62 miles to Campus Point). Good wind pressure average for strong nutrient upwelling at submarine canyon, kelp, surfgrass, seal haul out, whale scratch zone, bird nesting on cliffs; retention areas on both sides of point, good biodiversity, ASBS, good water clarity, quality, far from nearest port, recreational opportunities, access/launch sites for ecotours, diving, surfing, swimming, kayaks. Protects excellent primary and secondary forage production and retention of phytoplankton, algae, spawning and juvenile habitat for invertebrates, anchovies, squid etc forage base for likely to benefit species abundance and growth needed to provide highest fitness larvae for the long journey north to UCSB.	Forms cluster with Lachusa SMCA to create unusual rocky-sandy-rocky coastal ecosystem microcosm with all key habitats and most species represented. Boundary at Trancas Point accommodates erosion control activities north of the Point. Primary goals and objectives: G 1: O 1, 2, 4; G 3: O 1; G 4: O 1, 2; G 6: O 3, 4
Malibu Creek Estuary SMR	G1: (O-1,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-3,O-4,O-5), G6: (O-3,O-4)	Estuary at Malibu Creek, a historic steelhead spawning, cobble bedded creek which provides the stones for the offshore cobble reef at Malibu Point. Estuary serves migratory and resident birds, subject to extensive cleanup and restoration, monitoring.	Estuary subject to extensive cleanup and restoration. Interest for reserve to go along w/restoration project currently going on in that area, have completed some restoration (parking area), rest of restoration will get rid of channelization and make area more natural, management involved in restoration want a reserve there

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Palos Verdes SMR	66911	South Mainland	North: diagonal line from the intersection of Chickwick Rd and Paseo Del Mar, across from which is the dividing line between open land and houses seaward of Paseo del Mar (also intersection of 118 25.2' and 33 47.1') northwest to corner of N 33 49' and W 118 27', and then west along N 33 49' South: 33 46' East: MHTL West: State water line	SMR	very high	All take is prohibited	None Specified
Palos Verdes SMR (continued)							
Point Fermin SMP	67111	South Mainland	Maintain existing MPA boundaries	SMP	moderate low	All commercial take is prohibited. All recreational take is prohibited except finfish and lobster (hoop net, diving)	None Specified
Bolsa Chica SMP	66949	South Mainland	Maintain existing MPA boundaries	SMP	moderate low	Allows recreational hook and line take of species other than marine aquatic plants from designated areas around outer Bolsa Bay.	Boating, swimming, wading, and diving are prohibited. Other restrictions exist regarding: time of entry, accessible areas and allowed management activities.
Upper Newport Bay SMP	66963	South Mainland	Maintain existing MPA boundaries	SMP	moderate low	Allows recreational hook and line take of species other than kelp.	Restrictions exist regarding: swimming areas, boat speed, shoreline access and access fees.

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Document Revision Date June 10, 2009

MPA Name	Regional Goals/ Objectives	Site Specific Rationale	Other Considerations
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Palos Verdes SMR (continued)			The anchored corner at N 33 49' and W 118 27' (just inside of state waters and shy of the Redondo Canyon) is an attempt to prevent creating an unenforceable hanging corner at the intersection of the diagonal line and state waters. Regarding the northern boundary -- The diagonal line is roughly parallel to a line drawn between the westernmost extent of Rocky Point and the southernmost extent of Malibu Point, which demarcates the DFG Fishing District 19A. Instead of using whole minutes of latitude/longitude to describe the point where the SMR intersects the coast, we used a readily recognizable land feature that can also be described by 10ths of a minute latitude/longitude lines.
Point Fermin SMP	G3: (O-1), G5: (O-4)	Goal 3 SMP: Retain as is because it is a used and appreciated MPA.	Want to retain this MPA because there is a good local understanding of the boundaries and regulations and enforcement in place.
Bolsa Chica SMP	G2: (O-3), G3: (O-1), G4: (O-1,O-2), G6: (O-3,O-4)	Important estuary remnant of huge complex in heavily populated area.	None Specified
Upper Newport Bay SMP	G3: (O-1), G4: (O-1,O-2)	Maintains current protection of an existing state marine park that meets goal 3.	None Specified

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Newport Beach SMCA	66891	South Mainland	North: MHTL south bank of Newport Bay's entrance to Abalone Point South: diagonal line from the western boundaries intersection with latitude 33 35' to longitude 117 50' East: longitude 117 50' to Abalone Point West: south bank of Newport Bay's entrance due south to latitude 33 35'	SMCA	moderate low	All commercial take is prohibited except lobster (trap) and urchin (diving). All recreational take is prohibited except lobster (diving), pelagic finfish (spearfishing, hook and line), Pacific bonito (hook and line, spearfishing), white seabass (hook and line, spearfishing), halibut (hook and line, spearfishing) and shore fishing (hook and line).	Research
Laguna Beach SMR	66864	South Mainland	North: line running east from longitude 117 50' to Abalone Point South: 33 30.7' (line running east from longitude 117 50' to rock north of Aliso Creek East: MHTL from Abalone Point to rock north of Aliso Creek West: 117 50'	SMR	very high	All take is prohibited	Research
SoLag Dana SMCA	66880	South Mainland	North: MHTL from rock north of Aliso Creek to Salt Creek Point South: 33 27.3' (line running due west from buoy to line running due south from rock north of Aliso Creek) East: 117 43.3' (Salt Creek Point due south to buoy) West: 117 45.3' (rock north of Aliso Creek due south to line running due west from buoy)	SMCA	moderate low	All commercial take is prohibited except lobster (trap), pelagic finfish (hook and line) and urchin (diving). All recreation take is prohibited except pelagic finfish (hook and line).	Research
Dana Point SMR	67379	South Mainland	North: MHTL from Salt Creek Point to west end of jetty South: 33 27.3' (due east from buoy to a line due south from west end of jetty) East: landmark - due south from west end of jetty to a line due east from buoy West: 117 43.3' (due south from Salt Creek Point to buoy)	SMR	very high	All take is prohibited	None Specified

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Newport Beach SMCA	G2: (O-2,O-3,O-4), G3: (O-1,O-2,O-3)	Covers existing MPAs, including the Crystal Cove Underwater State Park, Robert E. Badham and Irvine Coast SMCAs, provides opportunity for recreational and commercial take while protecting species likely to benefit (sheephead, rockfish) with low home range, important to intertidal and kelp habitat health.	Forms cluster with Laguna Beach SMR.
Laguna Beach SMR	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1), G4: (O-1,O-2)	Protection of rocky intertidal extending offshore to kelp beds, pocket coves, etc. Covers 3 current MPAs, including the only reserve currently off of Orange County.	Forms cluster with Newport Beach SMCA. The west boundary was brought in as far as possible while still achieving minimum size to minimize the impact to the dory fleet fishery.
SoLag Dana SMCA	G1: (O-1,O-2,O-4,O-5), G2: (O-3), G3: (O-1,O-2,O-3)	Protects persistent kelp bed off of Dana Point. Provides for study opportunities off of Ocean Institute by splitting kelp bed into take and no take zones. (See SAT memo on adaptive management).	Cluster with Dana Point SMR.
Dana Point SMR	G3: (O-2,O-3)	A goal 3 SMR. Provides for study opportunities off of Ocean Institute by splitting kelp bed into take and no take zones. (See SAT memo on adaptive management).	Cluster with SoLag Dana SMCA.

California MLPA South Coast Study Region
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Doheny SMCA	66955	South Mainland	Maintains boundaries of existing MPA	SMCA	low	Allows recreational take of chiones, clams, cockles, rock scallops, native oysters, crabs, lobsters, ghost shrimp, sea urchins, mussels, and worms, and finfish, allows lobster (hoop net and diving), urchin (diving), rock scallop (diving), clams (hand harvest), rock crab (hoop net), shore fishing (hook and line). All commercial take is allowed including lobster (trap) and urchin (diving).	None Specified
Agua Hedionda Lagoon SMR	66941	South Mainland	Maintain existing MPA boundaries	SMR	very high	All take is prohibited	Restrictions exist regarding: allowed management activities.
Batiquitos Lagoon SMR	66962	South Mainland	Maintain existing MPA boundaries	SMR	very high	All take is prohibited	Boating, swimming, wading, and diving are prohibited. Other restrictions exist regarding: allowed management activities.
Swami's-San Elijo SMCA	66856	South Mainland	North: 33 03' South: 33 00.5' East: MHTL West: state waters line	SMCA	moderate high	All recreational take is prohibited except pelagic finfish (spearfishing), Pacific bonito (spearfishing), white seabass (spearfishing). Catch and release from shore with single barbless hooks and artificial lures as approved by SAT at medium-high LOP or better.	None Specified
San Elijo Lagoon SMR	66937	South Mainland	Extent of estuary within state waters	SMR	very high	All take is prohibited	None Specified
San Dieguito Lagoon SMR	66961	South Mainland	Maintain boundaries of existing MPA	SMR	very high	All take is prohibited	Boating, swimming, wading, and diving are prohibited. Other restrictions exist regarding: boating, swimming, wading, diving, access to the California least tern island, hours of entry, and allowed management activities.
Penasquitos Lagoon SMR	66932	South Mainland	Extent of estuary within state waters	SMR	very high	All take is prohibited	None Specified

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Doheny SMCA	G3: (O-1)	Maintains existing MPA	None Specified
Agua Hedionda Lagoon SMR	G1: (O-1), G4: (O-1)	Existing Gobi reserve in multipurpose lagoon.	For consideration in round 3; the managing foundation wants to increase size to no-boat line of bouys that connect two points.
Batiquitos Lagoon SMR	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-3,O-4,O-5), G6: (O-3,O-4)	Change from an SMP to an SMR to increase protection of a healthy lagoon with permanent open channel and high biociversity.	Very little fishing and State Parks does not want to manage.
Swami's-San Elijo SMCA	G1: (O-2,O-3,O-5), G2: (O-2,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-3,O-4)	Replicates multiple key habitats for northern connectivity. SMCA providing protected biological connection to the permanently open outlet of San Elijo Lagoon's proposed SMR, incorporating two existing ocean SMCA's at Encinitas and San Elijo, fronting state parks and a large campground. Included are two large persistent kelp forests and extensive surf grass beds between kelp and shore in both sub and intertidal zones, replicates nine Key habitats, including shallow and deep rocky reef, sandy intertidal to 200 meters, grunion spawning and some rocky intertidal shoreline, with good water quality. SMCA allows higher LOP recreational fishing. There are multiple public access points and a dozen great surf spots, NA submerged cultural sites, large parking lots serving Beach-tourism based local economies including retail surf shops and manufacturing, restaurants and hotels, close to UCSD, Palomar and Mira Costa colleges.	SMCA replacing two existing SMCA's between San Elijo Lagoon mouth (Cardiff) and D Street in Encinitas, a contiguous reef and kelp forest, with best SD surfgrass habitat. Simple regulations. The flat rocky reef habitat in North San Diego county does not have the vertical relief of the study areas finest, is less biodiverse and requires a larger area to capture species for a lifecycle, but has extensive kelp and surf grass beds, important for all larvae retention, protection and growth, and favored lobster habitat. The sandy areas at the lagoon mouths were historically productive halibut fishing grounds. Water quality is very good as no ports, big cities or industrial pollution. South border set to avoid low level sewer outfall.
San Elijo Lagoon SMR	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-2), G4: (O-1,O-2), G5: (O-5), G6: (O-3,O-4)	Existing SMP to SMR for complete protection of large healthy lagoon with permanent opening. Full lagoon and marsh ecology.	State parks would like out of management responsibilities.
San Dieguito Lagoon SMR	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-5), G6: (O-3,O-4)	Change from an SMP to an SMR to increase protection of this well managed and highly restored estuary, a part of the San Dieguito River Park system that extends to the Laguna Mountains. SONGS mitigation project.	None Specified
Penasquitos Lagoon SMR	G1: (O-1,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-2), G4: (O-1,O-2), G5: (O-5), G6: (O-3,O-4)	Important riverine marsh estuary adjacent to Torrey Pines State Park. Permanent opening to sea.	Very close to UCSD and SIO.

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San Diego-Scripps SMCA	67039	South Mainland	Maintain existing MPA boundaries	SMCA	moderate low	Allows recreational and commercial take of finfish. Allowances for scientific collection	None Specified
La Jolla SMR 1	67038	South Mainland	North: even with existing south boundary of San Diego-Scripps SMCA South: MHTL East: MHTL West: 117 16.4 (also lines up with Point La Jolla)	SMR	very high	All take is prohibited	Restrictions exist regarding: boat launching areas and anchoring times.
La Jolla SMR 2	66742	South Mainland	North: 32 51' South: 32 48.5' East: MHTL West: 117 19'	SMR	very high	All take is prohibited	None Specified
San Diego River SMCA	66927	South Mainland	San Diego River Channel within study region boundary not including Famosa Slough	SMCA	low	No fishing on north side, fish on the south side of the river is allowed. Allow take of ghost shrimp. No take of worms.	None Specified
Famosa Slough SMR	68174	South Mainland	Extent of estuary in state waters not including San Diego River Channel	SMR	very high	All take is prohibited	None Specified
Point Loma SMCA	66908	South Mainland	North: 32 45' South: 32 43' East: MHTL West: State water line	SMCA	moderate high	All recreational take is prohibited except pelagic finfish (spearfishing), Pacific bonito (spearfishing), white seabass (spearfishing), coastal pelagic finfish (dip net) and fishing from the pier.	None Specified

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San Diego-Scripps SMCA	G3: (O-1,O-2), G6: (O-1)	Scripps Pier and Aquarium and research labs use this area extensively for all UCSD marine biology and oceanography activities.	None Specified
La Jolla SMR 1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	Well established La Jolla Reserve protecting a unique sheltered cove and unusual reef structure and sandy bottom interface. Extremely biodiverse at the head of a submarine canyon. Clean clear water. La Jolla Cove is the number one recreational non-consumptive tourist destination in the study area, serving millions of divers, kayaks, surfers, swimmers, paddlers. Direct small boat launch, and shoreline observation with shore access points along the proposed SMR. Many large tame specimens of many species, leopard shark breeding. Heavily fished outside the reserve.	Boundaries were modified from existing MPA. UCSD and SIO overlook. Kayak launch and only beach boat launch in region.
La Jolla SMR 2	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-2,O-3,O-4)	The rocky reef from intertidal to 100 meters is the largest and most biodiverse in the study region with the most vertical relief, ten key habitats including a deep sub-marine canyon with two branches, one with hard and one soft bottomed; upwelling canyon nutrients form food web base, attracting pelagics small and large. There is a shift in the sand literal at the La Jolla Canyon north/south line, from fine to coarse, with a shift in biota. The sheltered northern cove is a leopard shark and squid spawning and rearing area. The soft fine-grained intertidal and subtidal flats to the north of the cove complement the rocky reef with a historic host of soft bottom species. Important Native American ceremonial sites dot the Cove. Windansea's surf heritage rocky reef breaks, with Blacks and the Shores on soft bottom, second the list of submerged cultural resources. The marine ecosystem is unmatched for beauty, clarity, water quality and biologic diversity, with a thriving local onshore economy historically focused on tourism.	This is a non-consumptive tourist mecca dependent on a vibrant nearshore marine ecosystem. Scripps Institute of Oceanography and UCSD overlook most of the SMR and can both monitor, study and help enforce the simple regulations. A complete contiguous rocky reef habitat SMR, isolated by spacious sandy terrain is required in the MPA network coastal array to provide valid 3-way performance study comparison with an entirely fished contiguous rocky reef, and/or MPA-divided, partially-fished contiguous rocky reefs like those on the islands. Ease of enforcement/compliance is optimal in undivided-habitat, geographically-distinct MPA.
San Diego River SMCA	G1: (O-1), G2: (O-1), G4: (O-1,O-2), G6: (O-3)	Need to ensure long term protection, lots of birds use this area, as do juvenile fish.	None Specified
Famosa Slough SMR	G1: (O-1,O-3,O-4,O-5), G4: (O-1)	Need to ensure long term protection, lots of birds use this area, as do juvenile fish.	None Specified
Point Loma SMCA	G1: (O-1,O-2,O-3,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	Multiple key habitats to complement Swamis replicas, extensive rocky reef, boulder and gravel beaches, rocky intertidal, sandy intertidal and subtidal, largest persistent kelp bed in study area, high biodiversity, elk kelp, surfgrass, Mexico larvae connectivity; contiguous reef, surf grass and kelp habitat south for spillover; University in sight, with historic long term monitoring and by SIO; public access, multiple prime surf spots, ecotour diving and observation, some boat access only; both heavy fishing pressure and strong biomass productivity.	Avoids DOD activities south of 43 minute line, allows pier fishing.

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection	Proposed Take Regulations	Other Proposed Regulations
Ha Sil (South San Deigo Bay) SMP	66758	South Mainland	North: Diagonal line from south bank of Sweetwater Marsh on east side to north end of cove on west side of the bay South: study region boundary East: study region boundary West: study region boundary	SMP	moderate high	Catch and release fishing is allowed using barbless hooks and artificial lures.	Allow dredging.
Tijuana River Mouth SMCA	67177	South Mainland	North: longitude 117 09' due east to MHTL along latitude 32 34' South: longitude 117 09' due east MHTL along state water's boundary West: from latitude 32 34' due south to state water's boundary along longitude 117 09' East: MHTL from latitude 32 34' south to US/Mexico border	SMCA	moderate high	All commercial take is prohibited except coastal pelagic finfish (pelagic seine). All recreational take is prohibited except coastal pelagic finfish (dip net) and pier fishing in compliance with required DFG codes and regulations.	The deposition of sediment will be permitted in the near shore zone adjacent to the TRNERR for any research, restoration, beach or dune nourishment projects including opening the mouth of the Tijuana River if it is blocked. This will be done in accordance with agency permitting. The City of Imperial Beach would be allowed to continue their beach replenishment and maintenance program. They would be made aware of the damage of kelp removal in beach grooming procedures.
Tijuana River Mouth SMCA (continued)							

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	Regional Goals/ Objectives	Site Specific Rationale	Other Considerations
Ha Sil (South San Deigo Bay) SMP	G1: (O-1,O-3,O-4,O-5), G2: (O-1,O-4), G4: (O-1,O-2), G5: (O-1), G6: (O-3,O-4)	Enhance recreational and educational opportunities while preserving significant cultural heritage and habitat (eelgrass flats). Major nursery, extensive amounts of eelgrass, inhabited with as many as 36 species, Lots of eelgrass (80% of eelgrass in bay), Sweetwater Reserve, nature center, educational stuff, south bay protected area, marsh at edge, leave salt flats alone, part of fish and wildlife reserve. Green turtles would benefit, intertidal mudflats, salt marsh on east side, two least tern preserves and two federal reserve areas, lots of shorebirds and pelagic birds. Already some enforcement and harbor patrol is there.	Just south of DoD interests, already 5 mph zone but needs more enforcement. Consider moving lines to not include harbors and harbor access.
Tijuana River Mouth SMCA	G1: (O-5), G3: (O-2,O-3), G6: (O-1,O-2,O-3)	Research and monitoring opportunities at the proposed MPA connected with Tijuana River Estuary, a National Estuarine Research Reserve site, creates the most intact contiguous estuarine/marine complex in the Southern California bioregion. It provides a model for understanding estuarine/ocean dynamics, informs future adaptive management in estuary and ocean interface throughout the bioregion and encourages collaboration with core agencies, institutions, and international organizations. It can be expanded to other estuarine and marine systems providing a nexus between estuarine and coastal waters. The research component of the MLPA enables better understanding of estuarine and marine ecosystems in the California Bight. The endangered California Least Tern is emblematic of connections between coastal zone habitats and nearshore zone at this site. There is concern about the live bait fishery impact on the tern and brown pelican foraging area.	Cluster with Tijuana Estuary SMR, the most intact and important estuarine system left in the Southern California bioregion. This MPA site is primarily delineated following Goal 3 and Objectives 2 and 3 in the MLPA. This shape accommodates recreational fishing and concerns voiced by the City of Imperial Beach. Goal 1, Objective 5 and Goal 6, Objectives 1, 2, and 3 are supported using the research approach in Goal 3. Goal 6 and Objective 3 emphasize the importance of ecological connectivity within and between regional components of the statewide network. There is expanded opportunity to do comparative research in a SMR and a SMCA. This MPA cluster emphasizes the relationship between estuarine and marine systems and gives opportunity to evaluate impacted and nonimpacted areas.
Tijuana River Mouth SMCA (continued)		The MPA would include a river mouth delta, soft sediment, largest south coast region offshore cobble reef 3 by 3 km, major barred sand bass spawning area, persistent kelp bed, surfgrass, freshwater plume; five key habitats included. Fish, like California halibut, rely on the estuary as a nursery returning to the marine environment later in life. Monitoring longshore ocean currents, larval migration and retention centers for unique species and fish populations from Mexican waters have great importance to Baja California and California. Sharing data is enhanced by a collaborative effort between researchers and institutions in both nations. This is the farthest point from San Diego harbor as it meets the southern US-Mexico boundary. It is the start of the Southern Coastal bioregion which extends to Point Conception.	The Coastal Zone Management Act (CZMA) at the federal level and the Marine Life Protection Act (MLPA) at the state level both have interests in protecting, managing and monitoring marine and estuarine ecosystems in the Southern California bioregion from the Mexican border to Point Conception, California. The Tijuana River National Estuarine Research Reserve (TRNERR) is a NOAA/State Parks site. Establishment of an adjacent MPA will enhance the MLPA and CZMA process affording opportunity to work and collaborate with other agencies, organizations and research institutions in this bioregion to share data, research methodologies. Ultimately this will promote understanding of estuarine and marine ecosystems, successful restoration, monitoring, education of the public and decision makers, adaptive management, better enforcement, increased ecological integrity and enhanced biological productivity.

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection	Proposed Take Regulations	Other Proposed Regulations
Tijuana River Mouth SMCA (continued)							
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Tijuana River Mouth SMCA (continued)							

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	Regional Goals/ Objectives	Site Specific Rationale	Other Considerations
Tijuana River Mouth SMCA (continued)		NOAA has established a vigorous research and monitoring program within the TRNERR, including long-term water quality, nutrient, and weather data collection. Recently, this effort has been expanded to other estuarine systems within the Bight, including long-term monitoring at Los Penasquitos Lagoon and a short-term, collaborative study (led by Southern California Coastal Water Research Project, SCCWRP) examining eutrophication in many southern California estuaries. Monitoring has also been occurring offshore in the area, including beach processes work by the Coastal Data Information Program, CDIP and nearshore monitoring conducted by Scripps Institution of Oceanography, SIO as part of the Southern California Coastal Ocean Observing System SCCOOS effort. This is already affording more precise details of the estuarine/marine system dynamic. Such a program would provide an excellent template to begin more detailed examination of the nexus between estuarine and coastal waters.	There is an opportunity for enhanced interagency cooperation and management which is certainly needed in times of economic cut backs. Enforcement opportunities will be expanded to include the US Fish and Wildlife Service, NOAA, State of California Department of Parks and Recreation and with the designation of an MPA, ultimately the California Department of Fish and Game. Water quality is an ongoing issue. It is constantly addressed by both nations as they search for solutions. The International Boundary and Water Commission, EPA, cities of Tijuana and Tecate, Mexico are on the Management Authority at the TRNERR. A concerted effort to work seamlessly across the border with agencies in the US including the Regional Water Quality Control Board is leading to success. There is now an operating international wastewater treatment plant on line. Two new plants in Tijuana have been added and a third plant will soon be completed.
Tijuana River Mouth SMCA (continued)		This is a stop over point on the Pacific Coast Flyway going into Mexico.	Dry-weather conditions in the system have dramatically improved, especially with the restoration of a hydrologic regime with little or no flow during dry months. The sandy beach within the boundary of the Tijuana Estuary provides critical nesting and foraging habitat for the endangered California Least Tern. This area has become increasingly important for protection and enhancement of this species' population. Agencies, like the US Fish and Wildlife Service, responsible for protection of this species have become concerned about outside impacts that may create decreased population recruitment. It is imperative to be aware of potential impacts including the bait fishing industry on this critical California Least Tern offshore foraging area as well as the beach. This will require research and monitoring to understand these impacts. Therefore, would like commercial coastal pelagic finfish pelagic seine fishing to require a permit from DFG. Reporting take would be required as part of the permit, to enable data collection targeting potential and existing
Tijuana River Mouth SMCA (continued)			Dry-weather conditions in the system have dramatically improved, especially with the restoration of a hydrologic regime with little or no flow during dry months. The sandy beach within the boundary of the Tijuana Estuary provides critical nesting and foraging habitat for the endangered California Least Tern. This area has become increasingly important for protection and enhancement of this species' population. Agencies, like the US Fish and Wildlife Service, responsible for protection of this species have become concerned about outside impacts that may create decreased population recruitment. It is imperative to be aware of potential impacts including the bait fishing industry on this critical California Least Tern offshore foraging area as well as the beach. This will require research and monitoring to understand these impacts. Therefore, would like commercial coastal pelagic finfish pelagic seine fishing to require a permit from DFG.

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection	Proposed Take Regulations	Other Proposed Regulations
Tijuana River Mouth SMCA (continued)							
Tijuana Estuary SMR	66926	South Mainland	Extent of estuary in state waters	SMR	very high	All take is prohibited	None Specified
Arrow Point SMCA	7363	East Channel Islands	North: landmark - Arrow Point South and West: MHTL East: 118 30'	SMCA	moderate low	Permits all recreational and commercial activities except take of invertebrates. Allows recreational take of sheephead (hook and line). Allows commercial take of sheephead (hook and line, spearfishing).	None Specified
Blue Cavern SMCA	67005	East Channel Islands	North: state waters line South: 33 27.13'ish - lines up with adjoining SMR East: 118 27 West: 118 29.3'	SMCA	high	All commercial take is prohibited except swordfish: (harpoon). All recreational take is prohibited except pelagic finfish (spearfishing, hook and line), Pacific bonito (hook and line), white seabass (spearfishing). Allow trolling for pelagics/surface fish (intended high level of protection). In waters depth greater than 50m: pelagic finfish, bonito, white seabass with Hook and Line "surface gear"	None Specified
Blue Cavern SMR	7362	East Channel Islands	North: 33 27.13'ish lines up with adjacent SMCA South: MHTL East: 118 27' West: 118 29.3'	SMR	very high	All take is prohibited	None Specified
Farnsworth Bank SMR	7364	East Channel Islands	North: 33 22' South: 33 20' East: MHTL West: state waters line	SMR	very high	All take is prohibited	Request for moorings to be installed to protect bottom structure, because would like the area to be a no anchor zone.

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	Regional Goals/ Objectives	Site Specific Rationale	Other Considerations
Tijuana River Mouth SMCA (continued)			Reporting take would be required as part of the permit, to enable data collection targeting potential and existing impacts on Least Terns and their foraging sites in addition to other unanticipated environmental ramifications. The permit and reporting system will enhance adaptive management in conjunction with data monitoring.
Tijuana Estuary SMR	G1: (O-5), G3: (O-2,O-3), G6: (O-1,O-2,O-3)	It is the most intact and important estuarine system left in the Southern California bioregion and is a National Wildlife Refuge a NOAA National Estuarine Research Reserve, a State Park and a Ramsar Wetland of International Importance. Used by many bird species including <u>endangered Least Terns</u> .	Cluster with Tijuana River Mouth SMCA. There is expanded opportunity to do comparative research in a SMR and a SMCA. This MPA cluster emphasizes the relationship between estuarine and marine systems and gives opportunity to evaluate impacted and nonimpacted areas
Arrow Point SMCA	G2: (O-4), G3: (O-1), G4: (O-1), G5: (O-1), G6: (O-3,O-4)	Continue historical protection of invertebrates while permitting local fishing opportunities. Modifies the existing invertebrate special closure area to be consistent with DFG feasibility guidelines.	None Specified
Blue Cavern SMCA	G1: (O-1,O-2,O-3,O-5), G2: (O-1,O-2,O-3,O-4), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-3,O-4,O-5), G6: (O-3,O-4)	The SMCA achieves a high level of protection and is intended to operate as a complex with the adjacent reserve. The SMCA status allows for fishing of pelagic/surface fish, an important consumptive use in this geography.	The MPA operates as a complex with the adjacent reserve.
Blue Cavern SMR	G1: (O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-4,O-5), G6: (O-4)	Protects warmer water habitat on the partly sheltered part of island. Captures Bird Rock, but not Ship Rock. Expands an existing MPA. Forms a minimum sized cluster with adjacent SMCA, for replication and multiple habitat connectivity and protection.	Want to keep Isthmus Reef out of the reserve because it's similar to offshore rocks in the reserve so offers an opportunity for comparison study. Maintains access to Two Harbors.
Farnsworth Bank SMR	G1: (O-1,O-2,O-3,O-4), G2: (O-1,O-2,O-3), G3: (O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-3,O-4)	Diverse, highly productive, wave-exposed portion of east islands bioregion. Contains nearshore reefs, high relief rocks, and the unique Farnsworth Bank/Eagle Rock and subtidal sand plains. One of few areas around Catalina with significant offshore rocky habitats, mostly to 100m depths, but some to 500m. Farnsworth Bank is the best known subsea pinnacle area for rare purple hydrocoral in S. Calif. and is an existing MPA for its protection. Important rocky intertidal habitats, some of best on Catalina. Species likely to benefit include rockfishes, kelp bass, scorpionfish, giant sea bass, sheephead, angel shark, leopard shark, halfmoon, rock crabs, rock scallops, abalone, lobster, sea cucumbers, and species that feed on squid spawning aggregations. Protects portion of deepwater soft bottom squid spawning habitats. Backbone regional SMR for ecologically important size and spacing linkages representing windward Catalina	Size is smaller than preferred in order to accommodate fishing uses at China Point/south and islander use of Ben Weston Beach environs - minimizing socioeconomic impacts while protecting a unique and important habitat. Relatively distant from major overnight mooring areas at Cat Harbor/Isthmus Cove and Avalon; avoids Little Harbor and Ben Weston Beach used as anchorage for small boats and kayak launch sites.

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	MPA ID	Bioregion	MPA Boundaries (Exact or Approximate)	Designation	Level of Protection	Proposed Take Regulations	Other Proposed Regulations
Avalon Dive Park SMR	7372	East Channel Islands	Boundaries are currently delineated with buoys Approximately: North: landmark - kayak rental at Descanso Beach South: end of jetty East: out 300 feet following coastline West: MHTL (same footprint as existing underwater park)	SMR	very high	All take is prohibited	No anchor zone.
Lover's Cove SMR	7371	East Channel Islands	Maintain existing MPA boundaries	SMR	very high	All take is prohibited	None Specified
Begg Rock SMR	7365	West Channel Islands	All state waters around Begg Rock.	SMR	very high	All take is prohibited	None Specified
San Clemente Pending Military Closure 1	68143	East Channel Islands	This is an APPROXIMATE polygon representing the Federal closure on San Clemente Island called SWAT-1	Undesignated	N/A	All take is prohibited	No entry zone.
San Clemente Pending Military Closure 2	68144	East Channel Islands	This is an APPROXIMATE polygon representing the Federal Closure located on the east side of San Clemente Island called SWAT-2.	Undesignated	N/A	The intent to is allow pier fishing for base personnel, but no other take allowed.	No entry zone.
Richardson Rock SMR	66745	West Channel Islands	None	SMR	very high	All take is prohibited	None
Judith Rock SMR	66756	West Channel Islands	None	SMR	very high	All take is prohibited	None
Harris Point SMR	66746	West Channel Islands	None	SMR	very high	All take is prohibited	None
South Point SMR	66755	West Channel Islands	None	SMR	very high	All take is prohibited	None
Carrington Point SMR	66747	West Channel Islands	None	SMR	very high	All take is prohibited	None
Skunk Point SMR	66757	West Channel Islands	None	SMR	very high	All take is prohibited	None

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	Regional Goals/ Objectives	Site Specific Rationale	Other Considerations
Avalon Dive Park SMR	G3: (O-1)	The area is currently a city underwater park. It is a heavy non-consumptive use area, especially by divers, and would like to preserve it for this use. This MPA is being requested by the residents of the City of Avalon. The city has designated this area an official "City Dive Park". The area is well defined by bouys and lines, hence the proposed shape that does not comply with DFG guidelines. Currently, both diving and fishing are permitted in this area. Most divers using this area are novices, many using the area as their open water dive certification. The area is heavily used. Fishing in the same area has presented some safety issues, with barbed hooks mixing with novice divers. Not a good situation. An SMR designation for this area would eliminate the fishing conflict and	People are used to the area being an underwater park, and there are already marker buoys in place.
Lover's Cove SMR	G3: (O-1), G5: (O-1,O-5)	Change existing SMCA to SMR to increase protection. Lovers Cove is currently an SMCA. Avalon residents prefer an SMR designation. The shape has been changed to more closely comply with DFG guidelines. It is recognized that this MPA is well below recommended size guidelines. However, it is a well-known MPA that has existed for decades, and the MPA should be retained, with the higher level of protection afforded by an SMR designation.	None Specified
Begg Rock SMR	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-1,O-2,O-3), G4: (O-1,O-2), G5: (O-1,O-2,O-3,O-4,O-5), G6: (O-1,O-3,O-4)	A unique portion of west islands bioregion due to its southwesterly position exposed to cold California current from north and lesser warm-water influences from SoCal Eddy. An offshore pinnacle with steep ridges, deep water soft and hard bottom habitat. Purple hydrocoral population. Entire rock is surrounded by an ASBS and is already part of a California Coastal Monument	None Specified
San Clemente Pending Military Closure 1	G1: (O-1,O-2,O-3,O-4,O-5), G2: (O-1,O-2,O-3), G3: (O-2), G4: (O-1,O-2), G6: (O-3,O-4)	Included per BRTF guidance for sub-bioregion habitat protection and replication.	None Specified
San Clemente Pending Military Closure 2	G1: (O-2,O-4), G4: (O-1,O-2)	Military closure. Sub-Bioregion habitat replication and protection opportunity.	None Specified
Richardson Rock SMR	None Specified	None	None
Judith Rock SMR	None Specified	None	None
Harris Point SMR	None Specified	None	None
South Point SMR	None Specified	None	None
Carrington Point SMR	None Specified	None	None
Skunk Point SMR	None Specified	None	None

California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

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Painted Cave SMCA	66752	Mid Channel Islands	None	SMCA	moderate low	All commercial take is prohibited except lobster (trap). All recreational take is prohibited except lobster (hoop net and diving), and pelagic finfish (spearfishing).	None
Gull Island SMR	66753	Mid Channel Islands	None	SMR	very high	All take is prohibited	None
Scorpion SMR	66754	Mid Channel Islands	None	SMR	very high	All take is prohibited	None
Footprint SMR	66748	Mid Channel Islands	None	SMR	very high	All take is prohibited	None
Anacapa Island SMCA	66750	Mid Channel Islands	None	SMCA	moderate low	All commercial take is prohibited except lobster (trap). All recreational take is prohibited except lobster (hoop net and diving), and pelagic finfish (spearfishing).	None
Anacapa Island SMR	66749	Mid Channel Islands	None	SMR	very high	All take is prohibited	None
Santa Barbara Island SMR	66751	Mid Channel Islands	None	SMR	very high	All take is prohibited	None

SMCA = state marine conservation area SMP = state marine park SMR = state marine reserve SMRMA = state marine recreational management area

Bioregions:

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| <ol style="list-style-type: none"> 1. North Mainland (Point Conception to Marina Del Rey) 2. South Mainland (Marina del Rey to the U.S.-Mexico border) 3. West Channel Islands (San Miguel, Santa Rosa and San Nicolas islands) | <ol style="list-style-type: none"> 4. Mid-Channel Islands (Santa Cruz, Anacapa and Santa Barbara islands) 5. East Channel Islands (Santa Catalina and San Clemente islands) |
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California MLPA South Coast Study Region
Description of Marine Protected Areas (MPAs) in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

MPA Name	Regional Goals/ Objectives	Site Specific Rationale	Other Considerations
Painted Cave SMCA	None Specified	None	None
Gull Island SMR	None Specified	None	None
Scorpion SMR	None Specified	None	None
Footprint SMR	None Specified	None	None
Anacapa Island SMCA	None Specified	None	None
Anacapa Island SMR	None Specified	None	None
Santa Barbara Island SMR	None Specified	None	None

California MLPA South Coast Study Region
Consideration of Existing State MPAs in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

Existing MPA Name	Retain (no changes to boundaries or regulations)	Modify (included with boundary or regulation change)	Remove (not included)
Refugio SMCA			Remove
Goleta Slough SMP		Modify regulations. Replace with Goleta Slough SMR.	
Big Sycamore Canyon SMR			Remove
Abalone Cove SMP			Remove
Point Fermin SMP	Retain		
Bolsa Chica SMP	Retain		
Upper Newport Bay SMP	Retain		
Robert E Badham SMCA		Modify boundaries and regulations. Replace with Newport Beach SMCA.	
Crystal Cove SMCA		Modify boundaries and regulations. Replace with Newport Beach SMCA.	
Irvine Coast SMCA		Modify boundaries and regulations. Replace with Newport Beach SMCA.	
Heisler Park SMR		Modify boundaries and regulations. Replace with Laguna Beach SMR.	
Laguna Beach SMCA		Modify boundaries and regulations. Replace with Laguna Beach SMR.	
South Laguna Beach SMCA		Modify boundaries and regulations. Replace with SoLag Dana SMCA.	
Niguel SMCA		Modify boundaries and regulations. Replace with SoLag Dana SMCA and Dana Point SMR.	
Dana Point SMCA		Modify boundaries and regulations. Replace with Dana Point SMR.	
Doheny SMCA	Retain		
Doheny Beach SMCA			Remove
Buena Vista Lagoon SMP			Remove (per Department of Fish and Game guidance)
Agua Hedionda Lagoon SMR	Retain		
Batiquitos Lagoon SMP		Modify regulations. Replace with Batiquitos Lagoon SMR	
Encinitas SMCA		Modify boundaries and regulations. Replace with Swami's-San Elijo SMCA.	
Cardiff-San Elijo SMCA		Modify boundaries and regulations. Replace with Swami's-San Elijo SMCA.	
San Elijo Lagoon SMP		Modify regulations. Replace with San Elijo Lagoon SMR	
San Dieguito Lagoon SMP		Modify regulations. Replace with San Dieguito Lagoon SMR	
San Diego-Scripps SMCA	Retain		
La Jolla SMCA		Modify boundaries and regulations. Replace with La Jolla SMR 1.	
Mia J Tegner SMCA			Remove
Catalina Marine Science Center SMR		Modify boundaries. Replace with Blue Cavern SMR.	
Farnsworth Bank SMCA		Modify boundaries and regulations. Replace with Farnsworth Bank SMR.	

California MLPA South Coast Study Region
Consideration of Existing State MPAs in Lapis 1 Draft MPA Proposal
Document Revision Date June 10, 2009

Existing MPA Name	Retain (no changes to boundaries or regulations)	Modify (included with boundary or regulation change)	Remove (not included)
Lover's Cove SMCA		Modify regulations. Replace with Lover's Cove SMR.	
Richardson Rock SMR	Retain (per Fish and Game Commission Guidance)		
Judith Rock SMR	Retain (per Fish and Game Commission Guidance)		
Harris Point SMR	Retain (per Fish and Game Commission Guidance)		
South Point SMR	Retain (per Fish and Game Commission Guidance)		
Carrington Point SMR	Retain (per Fish and Game Commission Guidance)		
Skunk Point SMR	Retain (per Fish and Game Commission Guidance)		
Painted Cave SMCA	Retain (per Fish and Game Commission Guidance)		
Gull Island SMR	Retain (per Fish and Game Commission Guidance)		
Scorpion SMR	Retain (per Fish and Game Commission Guidance)		
Footprint SMR	Retain (per Fish and Game Commission Guidance)		
Anacapa Island SMCA	Retain (per Fish and Game Commission Guidance)		
Anacapa Island SMR	Retain (per Fish and Game Commission Guidance)		
Santa Barbara Island SMR	Retain (per Fish and Game Commission Guidance)		
Arrow Point to Lion Head Point Special Closure		Modify boundaries and regulations. Replace with Arrow Point SMCA.	

SMCA = state marine conservation area SMP = state marine park SMR = state marine reserve