MB NEP BASE PROGRAMS ANALYSI, VOL. II

7.0 APPENDICES

- 7.1: MATRIX OF INSTITUTIONAL FRAMEWORK
- 7.2: QUESTIONNAIRE ON PROGRAM EFFECTIVENESS
- 7.3: RESPONSES TO QUESTIONNAIRE

. •

MB NEP BASE PROGRAMS ANALYSI, VOL. II

7.1: MATRIX OF INSTITUTIONAL FRAMEWORK

Programs Addressing Priority Problems SEDIMENTATION

्र १५ (ज्याहर्ष्ट्रा)	Resource	Finance	Voluntary:	Bduceriton/Medil" Ass.	Planning
		LOCALAGENCIES	CIBICIDES		
■ General Plan (CMB &	■ Dredging Activity	■ Мотто Вау	■ Conservation	Workshops /	■ Storm Drain Master
SLO-P&B)	Coordination with	Watershed .	Planning (RCD, NRCS)	Demonstration	Plan (CMB P&B, PW)
■ Local Coastal	Federal Agencies	Enhancement Plan	■ Planning Area	Projects (RCD)	■ Drainage Plan
Program (CMB &	(CMB H)	(RCD with SCC / NRCS)	Programs (SLO P&B,		Review and
SLO-P&B)	■ Drainage Plan	■ Los Osos Creek	SLO Eng.)		Approval (SLO-Eng.)
■ Zoning Ordinance	Review & Approval	Property	⇒SLO Area Plan		■ Conservation
(CMB & SLO-P&B)	(SLO-Eng.)	Conservation	(Runoff Monitoring)		Planning (RCD, NRCS)
■ Subdivision	■ Jurisdictional	Easement	⇒San Luis Bay		■ Area Plans (SLO-P&B)
Ordinance (CMB &	Authority (SLO-Eng.)	Acquisition and	Area Plan		
SLO-P&B)	■ Morro Bay	Enhancement	(Channel Maintenance)		
City Building	Watershed	Project (RCD with SCC	⇒Estero Area Plan		
Ordinance	Enhancement Plan	/NRCS)	■ Conservation Plan		
■ Building and	(RCD with SCC / NRCS)	■ Grants (RCD)	Development (CSL-		
Construction Title	■ Chorro Flats	■ Capitol	RCD)		
14 (CMB-P&B)	Acquisition &	Improvement			
■ Permitting (CMB &	Enhancement (RCD,	Program (SLO P&B)			
SLO-P&B)	scc)				
⇒CDP's	Los Osos Creek				
→Grading	Conservation				
⇒Tree Removal	Easement		_		
⇒Flood Hazard	Acquisition and		ı		
■ CEQA - Lead	Enhancement				
Agency (CMB & SLO-	Project (RCD with SCC				
P&B)	/NRCS)				-
■ Sedimentation &	Agricultural				
Erosion Control	Preserve Program	-			
Plan (SLO P&B)	(SLO-P&B)	-			
■ Flood Hazard Area	■ Coordinated · · · · · · · · · · · · · · · · · · ·				
Planning (SLO-Eng.)	Resource				
	Management and				

Programs Addressing Priority Problems <u>SEDIMENTATION</u>

Regulatory CEQA Review (CCC, DWR, RWQCB, DF&G)	Planning (CRMP) Process (CSL RCD) Coastal Nonpoint Pollution Control	STATE A STATE A Riparian Habitat Conservation Program (DF&G)		□Soil Resource Protection Program (DOC, Office of Land	■ Stormwater Pollution Prevention Plan (CNG)
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ Water Pollution Control (§ 5650) (DF&G) ■ Dredging Permits (§ 5653) (DF&G) ■ State Water Quality Standards (SWRCB) ■ Basin Planning Program (SWRCB) ■ Timber Harvest Plans (CDFFP) (Has MAA w/ SWRCB) ■ Lake or Streambed Alteration Permit (DF&G) ■ National Pollution Discharge Elimination System	Program (CCC, SWRCB - approved by NOAA / EPA) Water Quality Assessment (SWRCB, RWQCB) Nonpoint Source Management Program (SWRCB) TMDL's (RWQCB, US EPA) Regional Monitoring (RWQCB) Nonpoint Source Pollution Program (SWRCB) California Management Initiative (WMI) (RWQCB, US EPA, SWRCB) Morro Bay Watershed Sedimentation Study (SCC) Morro Bay	■ Morro Bay Watershed Enhancement Plan (SCC) (RCD implemented) ■ Chorro Flats Acquisition and Enhancement (SCC) (RCD led project) ■ Environmental Enhancement and Mitigation Program (i.e. matched grant from SCC for Chorro Creek) (Caltrans) ■ Urban Streams Restoration Program (DWR) ■ State Revolving Fund (SWRCB, RWQCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds	of Land Conservation) Williamson Act Program (DOC, Office of Land Conservation) Forest Stewardship and Stewardship Incentive Program (CDFFP) NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G) Morro Bay Watershed Demonstration Projects Program (SCC) (RCD implemented) Volunteer monitoring (RWQCB)	Conservation) Watershed Management Education Program (UC Ext.) Ranch Planning Short Course (UC Ext.) Model Urban Runoff Program (CCC) Project Wild (DF&G) Agricultural Drainage Reduction (DWR)	Land Management Plan for Camp San Luis Obispo (financed by CMD, prepared by NRCS, implemented by CNG,) □Farmland Mapping and Monitoring Program (DOC, Office of Land Conservation) □Fire and Resource Assessment Program (CDFFP) □California Fire Plan (CDFFP) ■Local Coastal Planning (CCC) ■California Fire Plan (CDFFP) □Stream and Watershed Planning and Restoration Program (DF&G) ■Integrated Natural Resources

Programs Addressing Priority Problems <u>SEDIMENTATION</u>

Regulatory	Resource	Finance 8	Woluntary	Polication/Arean Ass.	Planning
(NPDES) (RWQCB) Water Quality Certification (RWQCB) State Lands Dredging Permit (SLC) Harvesting of Timber Leases (SLC) Grazing Lease (SLC)	Watershed Enhancement Plan (SCC) Morro Bay Watershed Demonstration Projects (SCC) Chorro Flats Acquisition & Enhancement (SCC, RCD) Los Osos Creek Conservation Easement Acquisition & Enhancement (SCC) Land Management Plan for Camp SLO (financed by CMD, prepared by NRCS, implemented by CNG) Sustained Plan Yields (CDFFP) Fire/Resource Assessment Program (CDFFP) California Fire Plan (CDFFP)	(SWRCB, RWQCB) Land Management Plan for Camp SLO (financed by CMD, prepared by NRCS, implemented by CNG)	Voluntary	Education/Lech:Ass:	Management Plan (INRMP) (CNG)
,	■ California Wild (Caltrans)				

Programs Addressing Priority Problems <u>SEDIMENTATION</u>

Regultion	Resource p	Finance ₉	Voluntary	Education/Hech. Ass:-	Planning va 🚜
■ Coastal Nonpoint Pollution Control Program (NOAA, EPA) (implemented by CCC/SWRCB) ■ Total Maximum Daily Load (EPA)	■ Water Quality Assessment (EPA) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS, UC Ext., FSA) ■ Small Watershed Program and Flood Prevention Program (NRCS) ■ Watershed Surveys and Planning (NRCS) ■ National Forest System (USFS) ⇒ Los Padres National Forest Plan (USFS) ■ Coastal and Marine Geology Program (USGS)	□Conservation Reserve Program (NRCS, FSA) ■ Environmental Quality Incentives Program (NRCS, FSA) ■ Hydrologic Unit Area Grant Program (NRCS) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS) ■ Emergency Conservation Program (FSA) ■ Flood Risk Reduction Program (FSA)	■ Coastal Nonpoint Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB)	■ Hydrologic Unit Area Grant Program (NRCS) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS) ■ Conservation Technical Assistance (NRCS) ■ Conservation of Private Grazing Land Initiative (NRCS) ■ Water Quality/Quantity (USGS)	■ Los Padres National Forest Plan (USFS)

Regulatory	Hesource 45	Finance	Voluntary *	Education/Tech. Ass.	Planning (
	A Company of the Comp	LOCALA	GENCIES == 1.		
■ General Plan (CMB, SLO P&B)) ■ LCP (CMB, SLO P&B)) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ City Building Ordinance (CMB) ■ Permitting (CMB) ■ Live Aboard Permit Program (CMB H) ■ CEQA - Lead	■ Resource Management System (SLO P&B)		■ Derelict Vessel Removal (CMB H) ■ Planning Area Programs (SLO P&B, SLO Eng.) ⇒ Salinas River Area Plan (Septage Disposal)	■ Harbor Patrol Service (CMB H)	■ Wastewater Treatment Program (CMB P&B, PW) ■ Sewer Master Plan/Collection System Master Plan (CMB P&B, PW) ■ County Service Area 9 - Special District (SLO-Eng.) ■ Tidelands Park Master Plan (CMB P&B, CMB H, CMB Parks and Rec.)
Agency (CMB, SLO-P&B) ■ Waste Management Program (SLO-HA) ⇒ Solid Waste Program ⇒ Liquid Waste Management Program					
⇒Land Use Program ⇒Cross Connection Program Local Coastal	■ Coastal Nonpoint	■ Pumpout Grant	GENCIES Boating Clean and	□MURP(ccc)	■ Local Coastal
Planning (CCC)	Pollution Control	Program (DBW)	Green Campaign	■ Aquatic Safety	Planning (CCC)

	·				
: Regulatory	Resource	Finance	Voluntary 4.	Education/Tech/Ass.	Planning A life
■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC, DWR, RWQCB) ■ Water Pollution Control (§ 5650) (DF&G) ■ State Water Quality Standards (SWRCB) ■ Water Quality Certification (RWQCB) ■ Waste Discharge Requirements (RWQCB) ■ Basin Planning Program (RWQCB, SWRCB) ■ National Pollutant Discharge Elimination System (RWQCB) ■ Prohibitions and Prohibition Exemptions (RWQCB) ■ Ca. Shellfish		■ Public Water System Financial Assistance Program (DHS) ■ State Revolving Fund (RWQCB, SWRCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB)	(CCC) ■ California Clean Boating Network (CCC) □ NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G)	Educational Program and materials (DBW) ⇒Vessel Pumpout Locator Cards ⇒Shipshape Sanitation, MSD's, and Pumpouts ⇒Clean Vessel Act ⇒Federal Water Pollution Control Act information ⇒MARPOL Annex V information ■ Watershed Management Education Program (UC Ext.) ■ Ranch Planning Short Course (UC Ext.)	

i Regulatory	A for Resource 45	or Minance.	Woluntary .	Dilucation/Item.Ass	Planning
(DHS)	Projects (SCC)				
⇒Shellfish	■ Derelict Vessels			'	
Growing Area	(SLC)	,			
Certificates	■ Stormwater			, ·	
⇒Shellfish	Pollution Prevention				
Handling and	Plan (SWPPP) (CNG)				
Marketing	■ Land Management				
Certificate	Plan for Camp SLO				
■ Maximum	(CNG)				
Contaminant Levels	□ Water Management				
for Drinking Water	Initiative (WMI)				
(DHS)	(RWQCB, US EPA, SWRCB)				
■ Provisions for the	JWRCD)				
protection of water		•			
quality (DHS)					
■ Sanitation of Public					
Beach Standards					
(DHS)					
■ Backflow/Contamin					
ation of Public					·
Water Systems					
Prevention (DHS)					
■ Water Quality					
Enforcement				·•	
Actions (RWQCB)					
■ State Lands Lease			_		
(SLC)			·		_
■ Grazing Lease (SLC)				raelina escanan arinochilo). Salamianno di dibanti banta, e e e e e e e e e e e e e e e e e e e	research and a control of the contro
		REDERAL			
■ National Pollution	■ National Monitoring	■ National Monitoring	■ Coastal Nonpoint	■ National Monitoring	

Regulatory	Resource a	Finance:	Voluntary	Education/Fech Ass	Planning
Discharge Elimination System Program (EPA) Water Quality Criteria Program (EPA) Nonpoint Source Pollution/CZARA Program (EPA) Waste Management (USCG)	Program (EPA) Water Quality Assessment (EPA) Morro Bay Watershed Hydrologic Unit Area Project (NRCS, UC Ext., FSA) Coastal and Marine Geology Program (USGS)	Program (EPA) National Pollution Prevention Program (EPA) Clean Vessel Act Grants (USFWS) Environmental Quality Incentives Program (NRCS) Morro Bay Watershed Hydrologic Unit Area Project (NRCS)	Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB) Sea Partners Campaign (USCG)	Program (EPA) National Pollution Prevention Program (EPA) Morro Bay Watershed Hydrologic Unit Area Project (NRCS) Water Quality/Quantity (USGS)	

, Regulatory	Resource	Section and	Voluntary	<u>juditeationareditAss</u> e	(Clanning)
Land to the first and the second of the seco	H	LOCAL A	<u>GENCIES</u>		
■ General Plan (CMB, SLO P&B) ⇒ Ag. & Open Space Element ■ Local Coastal Plan (CMB, SLO P&B) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ Permitting (CMB & SLO-P&B) ⇒ CDP's ■ CEQA - Lead Agency (CMB, SLO-P&B) ■ Waste Management Program (SLO-HA) ⇒ Solid Waste Program ⇒ Liquid Waste Management Program ⇒ Liquid Waste Program ⇒ Land Use Program ⇒ Cross Connection Program ■ Live-aboard Permits	■ Agricultural Preserve Program (SLO P&B) ■ Drainage Plan Review and Approval (SLO Eng.) ■ Morro Bay Watershed Enhancement Plan (MBWEP) (CSL RCD) ■ Chorro Flats Acquisition and Enhancement Project (CSL RCD) ■ Los Osos Creek Property Conservation Easement Acquisition and Enhancement Project (CSL RCD)	<u>ACCAUA</u>	■ Planning Area Programs (SLO P&B, SLO Eng.) ⇒ SLO Area Plan (Runoff Monitoring) ⇒ Salinas River Area Plan (Septage Disposal) ■ Conservation Plan Development (CSL RCD)	■ Harbor Patrol Service (CMB H) ■ Morro Bay National Estuary Program (MBNEP) (SLO Eng.) ■ Workshops/Demons tration Projects (CSL RCD)	■ County Service Area 9 - Special District (SLO-Eng.) ■ Storm Drain Master Plan (CMB P&B) ■ Wastewater Treatment Program (CMB P&B) ■ Sewer Master Plan/Collection System Master Plan (CMB P&B)

Kedilemia.	Resource .	Pinance	// Voluntary :	Education/Itech Ass.	· Planing
Program (CMB H)					
■ Sedimentation and					
Erosion Control					
Plan (SLO P&B)	•				
		STATE A	GENCIES	I	
■ Local Coastal	■ Coastal Nonpoint	■ State Revolving	□NRCS Coordinated	□MURP (ccc)	■ Agricultural Water
Planning (CCC)	Pollution Control	Fund (RWQCB,	Resource	■ Environmental	Management
■ Coastal	Program (CCC,	SWRCB) Clean Water Act §	Management and	Compliance,	Planning (DWR)
Development	SWRCB - approved by NOAA/EPA) (CZARA §	205(j) Grant Funds	Planning (CRMP)	Permitting and Review Assistance	■ Integrated Natural Resources
Permits (CCC)	6217)	(SWRCB, RWQCB)	Process (DF&G) Agricultural Land	(DWR)	Management Plan
Federal	■ Water Quality	■ Clean Water Act §	Stewardship	■ Agricultural	(INRMP) (CNG)
Consistency (CCC) Lake or Streambed	Assessment (SWRCB, RWQCB)	319(h) Grant Funds	Program(ALSP)	Drainage Reduction	(1112411) (6116)
Alteration Permits	RWQCB) ■ TMDL's (RWQCB, US	(SWRCB, RWQCB) Public Water	(DOC)	(DWR)	
(DF&G)	EPA)	System Financial		■ Agricultural Efficient Water	
■ Backflow/	■ Basin Planning	Assistance Program		Management	
Contamination of	(RWQCB)	(DHS)		Practices (DWR)	
Public Water	■ Nonpoint Source Management			■ Agricultural	
Systems Prevention	Program (RWQCB)			Training and	
(DHS) ■ CEQA Review	■ CEQA Document			Education Program	,
(CCC, DWR, RWQCB)	Review (RWQCB)			(DWR)	
■ Water Pollution	■ Regional	· ·		■ Urban Streams	
Control (§ 5650)	Monitoring (RWQCB)			Restoration	
(DF&G) ■ State Water Quality	■ Nonpoint Source			Program (DWR) Mobile Irrigation	·
Standards (SWRCB)	Pollution (NPS)			Management	
■ Water Quality	Program (SWRCB)			Laboratories (DWR)	
			<u> </u>	1	<u> </u>

·					
ः ेरिस्युमीर्वेशकः	Resource a	in Rinance	Voluntary	Education/Tech Ass	Planning
Certification	■ Stormwater			■ Ca. Irrigation	
(RWQCB)	Pollution Prevention			Management	
■ Water Quality	Plan (SWPPP) (CNG)			Information System	
Enforcement	■ Land Management	`		(DWR)	
Actions (RWQCB)	Plan for Camp SLO			■ Farmland Mapping	
■ Prohibitions and	(CNG)			and Monitoring	
Prohibition	□ Water Management			Program (FMMP)	
Exemptions	Initiative (WMI)			(DOC)	
(RWQCB)	(RWQCB)		,	■ Soil Resource	
■ Waste Discharge		·		Protection Program	
Requirements				(DOC) Watershed	
(RWQCB)				Management	
■ Basin Planning				Education Program	
Program (RWQCB,				(UC Ext.)	
SWRCB) National Pollutant				■ Ranch Planning	
Discharge			•	Short Course (UC	
Elimination System		:		Ext.) (?)	·
(RWQCB)	·				
■ Irrigation Control					
Programs (DHS)					
Grazing Lease (SLC)					
■ Harvesting of					
Timber Lease (SLC)					,
■ Model Water				-9	
Efficient Landscape					
Ordinance (DWR)					•
■ Timber Harvest					
Plans (CDFFP) (Has					
2			· · · · · · · · · · · · · · · · · · ·		

MAA w/ SWRCB) ■ Water Quality Protection (DHS) ■ Regulation of "Garbage" in Navigable Waters (DHS)	Resource 200	Finance	Voluntary	Education/Teeli Ass	Planning
	■ National Monitoring Program (EPA) ■ Water Quality Assessment (EPA) ■ Irrigation Drainwater Program (USFWS) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS, UC Ext., FSA) ■ Coastal and Marine Geology Program (USGS)		■ Coastal Nonpoint Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB)	■ National Monitoring Program (EPA) ■ National Pollution Prevention Program (EPA) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS) ■ Water Quality/Quantity (USGS)	

Programs Addressing Priority Problems <u>HEAVY METALS</u>

Regulatory.	Resource *	Finance	Voluntary	Education/Tech. Ass.	Planning
		<u>LOCAL A</u>	GENCIES		
■ General Plan (CMB, SLO P&B) ■ LCP (CMB, SLO P&B) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ Permitting (CMB) ■ CEQA - Lead Agency (SLO-P&B) ■ Statewide Pesticide	■ Environmental Monitoring (SLO Ag.)				■ County Service Area 9 - Special District (SLO-Eng.) ■ Risk Management and Prevention Plan (RMPP) (SLO HA) ■ Hazardous Materials Program (SLO Ag.)
Program (CAC) Restricted Materials Permits (CAC) Registration of Pesticide Users (CAC) Pesticide			·		
Management Zones (CAC) ■ Hazardous Waste Management/ Materials Program (SLO-HA) ⇒ Underground Storage Tanks ⇒ Emergency Response				•	

Programs Addressing Priority Problems <u>HEAVY METALS</u>

Regulatory	Resource 2	Finance -	Voluntary	Education/Pedit Ass	Planning 2.
⇒Hazardous Waste	·				
Management					
Standards and			·		
Regulations				·	
■ Surface Mining					
Operations Permit					,
and Reclamation					
Plan (SLO P&B)		•			• *
■ Drilling Permit (SLO					
P&B)					
■ Small Water					
Program (SLO HA)					
■ Waste Management					
Program (SLO-HA)					
⇒Solid Waste					
Program					·
⇒Liquid Waste	·				
Management	·				
Program					
⇒Land Use					
Program	•				
⇒Cross Connection					
Program					
			GENCIES		
■ Local Coastal	■ Coastal Nonpoint	■ State Revolving	□NRCS Coordinated	■ Inactive Mine	■ Integrated Training
Planning (CCC)	Pollution Control	Fund (SWRCB)	Resource	Reclamation/Remed	Area Management
■ Coastal	Program (CCC,	■ Clean Water Act §	Management and	iation (RWQCB)	(ITAM) (CNG)
Development	SWRCB - approved by	205(j) Grant Funds	Planning (CRMP)	■ California	■ Diversion, Planning

Programs Addressing Priority Problems <u>HEAVY METALS</u>

Regulatory Resource	garance Einance	Voluntary	Palucation/Techi Ass.	Planning 🚜
Permits (CCC) Federal Consistency (CCC) CEQA Review (CCC, DWR, RWQCB) Water Pollution Control (§5650) (DF&G) State Water Quality Standards (SWRCB) Water Discharge Requirements (RWQCB) Basin Planning Program (RWQCB, SWRCB) National Pollutant Discharge Elimination System (RWQCB) Spills, Leaks, Investigation and Cleanup Program (RWQCB) Maximum Drinking Water Contaminant Levels (DHS) California Shellfish Sanitation Program Monitoring (I	Watch inistered ag (SWRCB, RWQCB) Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB) Underground Tank Cleanup Fund (RWQCB) Solid Waste Disposal and Codisposal Site Cleanup Program (CIWMB) Household Hazardous Waste (HHW) Grants (CIWMB) of D) ersight ng CB) urce QCB) RWQCB) RWQCB) RWQCB) RWQCB) RWQCB) Inces	Process (DF&G)	Environmental Technology Partnership (CETP) Certification (US EPA, DTSC) Registration of Environmental Assessors (REA) Program (DTSC) Hazardous Waste Generator/ Small Business Outreach Workshops (DTSC, CAL EPA, US EPA) Emergency Response Training (DTSC) Toxics Update (DTSC) Watershed Management Education Programs (UC Coop. Ext.) Ranch Planning Short Course (UC Coop. Ext.)	and Local Assistance (CIWMB)

8/16/98

Programs Addressing Priority Problems HEAVY METALS

Regulatory	* Resource **	Finance -	Section 18	Education/Tech. Ass.	Planning
(SHQ)	(SWRCB)				
⇒Shellfish	■ Nonpoint Source				
Growing Area	Pollution (NPS)				
Certification	Program (SWRCB)				
⇒Shellfish	■ Bay Protection and	.			
Handling and	Toxic Cleanup				
Marketing	Program (SWRCB)				
Certificates	■ Toxic Substances				-
■ Solid Waste Facility	Monitoring Program				
(SWF) Permits	(SWRCB)				
(CIWMB)	■ Stormwater				
■ Hazardous Waste	Pollution Prevention				
Facilities Permits	Plan (SWPPP) (CNG)				
(DTSC)	■ Site Mitigation				
■ Solid Waste	program (DTSC)				
Management (DHS)	■ Local Agency				
■ Prohibitions and	Cleanup Program				
Prohibition	(DTSC)				
Exemptions (RWQCB)	■ Private Site				
■ Underground	Management (PSM)				
Tanks/ Above	Program (DTSC)				-
Ground Tanks					
(RWQCB)					
■ Department of				ŧ	
Defense (DOD)					
Facilities (SWRCB)					
•		STONACYTAGALAG			Hart gather of the control of her strong and the control of the co
					· · · · · · · · · · · · · · · · · · ·
■ Waste Management	■ Water Quality		■ Coastal Nonpoint	■ Water	■ Los Padres National

Programs Addressing Priority Problems <u>HEAVY METALS</u>

Regulatory	Resource 1	Finance	Voluntary	Education/Tech. Ass.	state Plaining San
(USCG)	Assessment (EPA)		Pollution Control	Quality/Quantity	Forest Plan (USFS)
	■ Environmental		Program (approved by	(USGS)	
	Contaminants		NOAA / EPA, implemented by CCC,		
	Program (USFWS)		SWRCB)	·	
	■ National Forest		•		
	System (USFS)				
	⇒ Los Padres				
	National Forest				
	Plan (USFS)				
	■ Coastal and Marine				
	Geology Program (USGS)				

•		(P			100 mm 10
kegulatory	Resource	Trance	Voluntary	Education	Planning
	2	LOCALA	GENCIES		
■ General Plan (CMB, SLO P&B)) ■ LCP (CMB, SLO P&B)) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ City Building Code Ordinance (CMB) ■ Permitting (CMB, SLO P&B) ⇒ Drilling Permit	■ Environmental Monitoring (SLO Ag.)	■ Transportation Enhancement Activity Program (SLOCOG)	■ Risk Management and Prevention Plan (SLO-HA)		■ Storm Drain Master Plan (CMB P&B, PW) ■ County Service Area 9 - Special District (SLO-Eng.) ■ Solid Waste Plan (SLO-HA) ■ Risk Management and Prevention Plan (SLO-HA)
■ CEQA - Lead Agency (SLO-P&B) ■ Small Water Program (SLO HA) ■ Solid Waste Program/ Solid Waste Management Plan (SLO HA)					
■ Hazardous Waste / Materials Programs (SLO-HA) ⇒ Hazardous Waste Management Standards and Regulations - has MOU with DTSC ⇒Emergency			X.	.,	·

Regulation	Resource	Finance	* *Voluntary	Education	Planning
Response ⇒ Underground Storage Tanks				- Strangelid ann arthri mo m' m. Mar a ta'i t-amhandilgen sanne a' feil	
Resident to the second second			GENCIES		
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC, DWR, RWQCB) ■ Water Pollution Control (§ 5650) (DF&G) ■ Hazardous Waste Facilities Permits (DTSC) ■ State Water Quality Standards (SWRCB) ■ Water Discharge Requirements (RWQCB) ■ Basin Planning Program (SWRCB, RWQCB)) ■ National Pollutant Discharge Elimination System	■ Nonpoint Source Pollution Management Program (RWQCB, SWRCB) ■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB - approved by NOAA / EPA) (CZARA § 6217) ■ State Mussel Watch Program (DF&G) ■ Toxic Substances Monitoring Program (administered by SWRCB; monitoring by DF&G) ■ Bay Protection and Toxic Cleanup Program (SWRCB, Cal.EPA, coordinates with RWQCB) ■ State Mussel Watch Program (administered by SWRCB; DF&G conducts sampling) ■ Water Quality	■ Grant Program (DTSC) ■ State Revolving Fund (RWQCB, SWRCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB) ■ Underground Petroleum Storage Tank Cleanup Fund (RWQCB, SWRCB) ■ Oil Spill Prevention and Administrative Fund (OSPR) ■ Oil Spill Response Trust Fund (OSPR) ■ Science Program (OSPR) ■ Public Water System Financial Assistance Program (DHS)	□NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G) ■ Voluntary Cleanup Program (DTSC) ■ Volunteer Network (OSPR) ■ Volunteer Outreach Program (OSPR)	■ California Compliance School (DTSC) ■ Hazardous Waste Generator / Small Business Outreach Programs (DTSC, Cal EPA, US EPA) ■ Toxics Update a bimonthly guide to Regulatory Assistance, Publications, etc. (DTSC) ■ Emergency Response Training (DTSC) ■ Boating Clean and Green Campaign (CCC) ■ California Clean Boating Network (CCC) ■ Model Urban Runoff Program (CCC)	■ Joint CCC/BCDC Oil Spill Program (CCC) (OSPRA) ■ Drills and Exercises Program (OSPR) ■ Harbor Safety Commitees (OSPR) ■ Area Committee Plans (ACPs) OSPR) ■ Coastal Protection Review (OSPR) ■ Environmental Impact Reports (EIRs) (SLC) ■ Derelict Vessels (SLC) ■ Diversion, Planning and Local Assistance (CIWMB)

k t ęgulatory i j	Resource	Finance	Voluntary 4	Educațion - 4	Planning
(RWQCB) ■ Site Mitigation Program (DTSC- has MOU w/ US EPA, SWRCB, RWQCB) (CERCLA; see Superfund) ■ Underground Petroleum Storage Tanks (SWRCB, RWQCB) ■ Spills, Leaks, Investigation and Cleanup Program (RWQCB) ■ Local Agency Cleanup Program (DTSC) ■ Private Site Management Program (DTSC) ■ Maximum Contaminant Levels for Drinking Water (DHS) ■ Contingency Planning (OSPR) ■ Enforcement and Inspection (OSPR) ■ California Shellfish Sanitation Program RWQCB ■ Region Cospra Cospra Water (CHS) ■ California Shellfish Sanitation Program RWQCB ■ Region RWQCB ■ Region Region RWQCB ■ Region Reso Asse (OSPR ■ California RWQCB ■ Region Reso California Region RWQCB ■ Region REGION ■ CEQ Revion Region Reg	Essment (SWRCB, CB) OL's (RWQCB, US) Environmental anology nership ification (DTSC) stration of ronmental essors Program C) I Services Unit (R) Ource essment Unit (R) Fornia Drinking er Source essment and ection Program (DHS) in Planning (CB) OA Document ew (RWQCB) onal Water ity Monitoring	Solid Waste Disposal and Codisposal Site Cleanup Program (CIWMB) Enforcement Assistance Grants (CIWMB) Household Hazardous Wastes (HHW) Grants (CIWMB) Used Oil Grants (CIWMB)		■ Science Program (OSPR) ■ Outreach Education Program (OSPR) ■ Coordination, Information Branch (OSPR) ■ Integrated Training Area Management (ITAM) (CNG) ■ Aquatic Safety Educational Program (AquaSMART) (DBW) ■ Oily Waste Discharge Placards Program (DBW)	

Regulatory	Resource	Finance ::	Voluntary	Education -	Planning 2
Growing Area	■ Hazard Removal				·
Certificates	(SLC)				
⇒ Shellfish	■ Stormwater		·		
Handling and	Pollution Prevention	•			·
Marketing	Plan (SWPPP) (CNG,			,	
Certificates	RWQCB)	,			
■ Standards for Solid	■ Land Management				j
Waste Handling/	Plan for Camp San				
Disposal for	Luis Obispo (NRCS,				
Protection of Public	CNG) ■ Soil Resource				
Health (DHS)	Protection Program				
■ Water Quality	(DOC)				1
Certification	■ NPS & Monitoring	·			
(RWQCB)	(RWQCB)				
■ Waste Disposal	□ Water Management				
Requirements	Initiative (WMI)				
(RWQCB)	(RWQCB, SWRCB, US EPA)				
■ Prohibitions and	EFA)				
Prohibition		•			
Exemptions (RWQCB)	,			,	
■ Water Quality					
Enforcement					
Actions (RWQCB)					
■ Department of					
Defense (DOD)					
Facilities Oversight					Ì
(RWQCB, SWRCB)					Į
■ Solid Waste					· •
Facilities (SWF)					
Permits (CIWMB)					

■ Used Oil Certification (CIWMB) ■ Waste Tire Facilities (WTF) Permits (CIWMB) ■ Oil/Gas Permits (SLC)	Resource	Finance :	Voluntary	Education	Planning
■ Superfund (EPA) (CERCLA) (Site Remediation Program) ■ National Spill Prevention and Response (EPA) (CWA § 311 & OPA '90) ■ National Hazardous Waste Control Program (EPA) (RCRA) ■ National Facility Control/Reporting of Toxic Substances (EPA) ■ Oil Spill and Prevention (USCG) (OPA'90) ■ Waste Management (USCG)	■ National Monitoring Program (EPA) ■ Water Quality Assessment (EPA) (CWA § 305(b)) ■ Environmental Contaminants Program (USFWS) ■ Toxic Pollutant and Spill Response (USFWS) (OPA '90) ■ Coastal and Marine Geology Program (USGS)	e publication of the contract	■ Coastal Nonpoint Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB) (CZARA § 6217) ■ Sea Partners Campaign (USCG)	■ National Monitoring Program (EPA) ■ Oil Spill and Prevention (USCG) (OPA'90) ■ Water Quality/Quantity (USGS)	■ Oil Spill and Prevention (USCG) (OPA'90)

Programs Addressing Priority Problem <u>PESTICIDES</u>

Regulatory	Resource	Finance of	Voluntary	Education	Planning
Tegulator)		LOCALA			
■ General Plan (CMB, SLO P&B) ■ Local Coastal Plan (LCP) (CMB, SLO P&B) ■ Incident Investigation (CAC, DPR) ■ Statewide Pesticide Program (CAC, DPR) ■ Restricted Materials Permit (CAC) ■ Registration of Pesticide Users (CAC) ■ Pesticide Users (CAC) ■ Pesticide Management Zones (CAC) ■ CEQA - Lead Agency (SLO-P&B) ■ Underground	■ Environmental Monitoring (CAC) ■ Weed Control Program (CAC) ■ Biological Pest Control Program (CAC) ■ Vertebrate Pest Control Program (CAC)		■ Conservation Plan Development (CSL RCD)	■ Registration of Pesticide Users (CAC) ■ Biological Pest Control Program (CAC) ■ Vertebrate Pest Control Program (CAC)	■ Hazardous Materials Program (CAC) ■ Agricultural Data Collection Program (CAC)
Storage (SLO HA) Emergency Response (SLO HA) Hazardous Waste / Materials Programs (SLO-HA) Hazardous Waste Management Standards and				- -	

Programs Addressing Priority Problem PESTICIDES

Regulatory	2 4 Resource	iti, saa Finance s	a Voluntary	Edication	/ sea Planning
Regulations - has MOU with DTSC					
			GENCIES		
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC) ■ California Shellfish Sanitation Program (DHS) ⇒ Shellfish Growing Area Certificates ⇒ Shellfish Handling and Marketing Certificates ■ Water Pollution Control (§ 5650) (DF&G) ■ National Pollutant Discharge Elimination System (NPDES) (RWQCB) ■ Department of Defense (DOD)	■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB -approved by NOAA/ EPA) ■ Pesticide Management (SWRCB, RWQCB implements plan; DPR) ■ State Mussel Watch Program (DF&G, SWRCB) ■ TMDL's (RWQCB, US EPA) ■ California Drinking Water Source Assessment and Protection Program (DHS) □ Wellhead Protection Program (DHS) ■ Basin Planning (RWQCB) ■ Nonpoint Source Management Program (RWQCB) ■ Water Quality Assessment (RWQCB,	■ Pest Management Grants (DPR) ■ Partnerships for Environmental Protection (DPR) ■ State Revolving Fund (SWRCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB) ■ Underground Tank Cleanup Fund (RWQCB) ■ Household Hazardous Waste (HHW) Grants (CIWMB)	■ IPM Innovators Award Program (DPR)	■ Epidemiological Investigations (DHS) ■ MOU w/ DPR, to share monitoring information (DPR, DHS) ■ IPM Innovators Outreach Program (DPR) ■ Training (DPR) ■ Grape Workshops (DPR) ■ Model Urban Runoff Program (MURP) (CCC) ■ Pest Management (RWQCB, SWRCB) ■ Soil Resource Protection Program (DOC) □ Watershed 「Management Education Program (UC Ext.) □ Ranch Planning Short Course (UC Ext.)	■ Ca. Pesticide Management Plan for Water Quality (DPR, CAC, SWRCB/RWQCB)

Programs Addressing Priority Problem <u>PESTICIDES</u>

a, Regulatory	Resource	- Rinance	: Voluntary	Education .	្រុងម្ចាញ់បង្ក្រ
Oversight (RWQCB,	SWRCB)		· ·		
SWRCB)	Regional		•		
■ State Water Quality	Monitoring (RWQCB)				·
Standards (SWRCB)	■ Nonpoint Source				
■ Basin Planning	Pollution (NPS)			•	
Program (RWQCB, SWRCB)	Program (SWRCB)				
■ Irrigation Control					
Programs (DHS)					
■ Maximum					
Contaminant Levels	·				
for Drinking Water		·			
(DHS)					·
■ Hazardous Waste					
Facilities Permits					
(DTSC) ■ Site Mitigation					
Program (DTSC)					
Pesticide ■ Pesticide					
Regulation,					
Enforcement,					
Authorities (DPR)					•
■ Pesticide Product		_			
Registration (DPR)					
Restricted Materials				••	
and Permitting					
Program (DPR)		•			
■ Pesticide Licensing		.			
and Certificate					
Program (DPR)					
Flogram (DFK)		<u> </u>			

Programs Addressing Priority Problem <u>PESTICIDES</u>

iki-gultuosy	Résource	Finance .	Voluntary.	Education	ម្ភាម្ពារប្រែក្រុ
■Incident					
Investigation (DPR,					
CAC)					,
■ Ca. Pesticide					
Management Plan			•		
for Water Quality -				·	
MAA w/ SWRCB					
(DPR, CAC, SWRCB/RWQCB)					
■ Ground Water					
Protection Program					
(DPR)			,		
■ Surface Water					·
Protection Program					
(DPR) ⇒Rice Pesticide		·			
Program					
⇒Dormant Spray			•		
Water Quality					
Program					·
■ Endangered Species					
Program (DPR, CAC)					
■ Water Rights Permits					
(RWQCB)					
■ 401 WQ Certification (RWQCB)					
			AGENCIES	T	
■ Pesticide and	■ Water Quality	■ Environmental	■ Coastal Nonpoint		
Groundwater	Assessment (EPA)	Quality Incentives	Pollution Control		
Strategy (EPA) (FIFRA)	■ Environmental Contaminants	Program (NRCS)	Program (approved by NOAA / EPA,		

Programs Addressing Priority Problem <u>PESTICIDES</u>

Regulatory Resource	Whence Voluntary	/ 1Dainerilon	s Plannings sa
Program (USFWS) Coastal and Marine Geology Program (USGS) Water Quality/Quantity (USGS)	implemented by CCC, SWRCB)		

Programs Addressing Priority Problem FRESH WATER FLOW

:: Regulations	Resource :	10 neince-	Voluntary	Education	Planning				
LOCALAGENCIES									
■ General Plan (CMB, SLO P&B) ■ LCP (CMB, SLO P&B) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ City Building Code Ordinance (CMB) ■ Permitting (CMB) ■ CEQA Review (CMB) ■ CEQA - Lead Agency (SLO-P&B) ■ Permitting (SLO-P&B) ■ CDP's	■ Resource Management Systems (SLO P&B) ■ Agricultural Preserve Program (SLO P&B) □ Coordinated Resource Management and Planning (CRMP) Process (CSL RCD)		■ Planning Area Programs (SLO P&B, SLO Eng.) ⇒ SLO Area Plan (Basin Information, Water Conservation Retrofit)		■ Water Management Plan (CMB P&B, PW) ■ County Service Area 9 - Special District (SLO-Eng.) ■ Area Plans (SLO P&B) ■ Wastewater Reclamation Program (CMB PW) ■ Master Water Plan (CMB PW) ■ Strom Drain Master Plan (CMB PW) ■ Tidelands Park Master Plan (CMB H)				
⇒Grading	Managarita anna de anna de Consertê e e e e e e e e e e e e e e e e e e e	CTATE A	GENCIES						
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC, DF&G) ■ Lake or Streambed Alteration Agreement (1603)	■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB - approved by NOAA / EPA) ■ Ocean and Coastal Area Management (DF&G) ■ Fisheries Management (DF&G) ■ Natural Diversity Database (DF&G)	Riparian Habitat Conservation Program (DF&G) ■ Clean Water Act § 205 (j) Grant Funds (RWQCB)	Resource Management and Planning (CRMP) Process (DF&G)	■ SCC General Technical Assistance/ Workshops (SCC) ■ Environmental Compliance, Permitting and Review (DWR) ■ Urban Streams Restoration Program (DWR) ■ Water Education	■ Local Coastal Planning (CCC) ■ Stream and Watershed Planning and Restoration Program (DF&G) ■ Agricultural Water Management Planning (DWR)				

Programs Addressing Priority Problem FRESH WATER FLOW

Regulationy	Resource	politinance	Voluntary:	Education	Planning
(DF&G)	■ California Ocean			Program (DWR)	
■ Take of Fish and	Resources Program		•	■ Land Resources and	
Wildlife (DF&G)	(Resources Agency)			Use Program (DWR)	
■ Basin Planning	■ Morro Bay			■ Agricultural	
Program (RWQCB,	Watershed			Drainage Reduction	
SWRCB)	Demonstration			(DWR)	
■ Dredging Permits	Projects (SCC)			■ Agricultural	
(DF&G)	■ Basin Planning			Efficient Water	
■ Threatened and	(RWQCB)			Management	
Endangered Species	■ Nonpoint Source			Practices (DWR)	•
(DF&G)	Management			■ Agricultural	
	Program (RWQCB)			Training and	•
	■ California			Educational	•
	Stormwater BMP			Program (DWR)	
	Handbooks (SWRCB)			■ Mobile Irrigation	
	■ Nonpoint Source			Management	
	Pollution (NPS)			Laboratories (DWR)	
	Program (SWRCB)			■ California Irrigation	
	■ Environmental	·		Management	
	Enhancement and			Information System	
	Mitigation (EEM0			(CIMIS) (DWR)	·
	Program (Caltrans)			□Watershed	
]	■ Model Water			Management	
	Efficient Landscape			Education Programs	
	Ordinance (DWR)			(UC Coop. Ext.)	
	, ,			☐ Ranch Planning	
				Short Course (UC	
				Coop. Ext.)	
			AGENCIES		
			■ Coastal Nonpoint	■ Water	

Programs Addressing Priority Problem FRESH WATER FLOW

an an						
min						
Plan						
	,					
	ity					
tio	nant					
due	Quality/Quantity					
E	ıalit	SGS)				
	Õ	Ë				
		<u> </u>				
	rol	ed by		႘		
tary	Cont	ppro	_	S Se	. 1	
lun) uo	m (a	EPA	nted		
V	Pollution Control	ogra	AA/	leme	RCB	
	Po	Program (approved by	8	inp	SW	
	 	•				l
99						
inan						
H.						
100	<u> </u>	-	<u> </u>			١
Irce						l
Sou						
R						l
						١
						1
ton						
100						
3						

Programs Addressing Priority Problem <u>HABITAT LOSS</u>

. Regultion	Resource	Epplice LOCAL A	Volumery SENCIES	lèducation	Planning.
■ General Plan (CMB) ■ LCP (CMB) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ Permitting (CMB) ■ CEQA Review (CMB) ■ General Plan (SLO): ⇒Estero Plan ⇒Salinas Area Plan ⇒San Luis Bay Area Plan ⇒San Luis Obispo Area Plan □ Agriculture and Open Space Element ■ LCP ■ Zoning Ordinance ■ Subdivision Ord. ■ Permitting (SLO-P&B) ⇒CDP's ⇒Grading ⇒Tree Removal ⇒Flood Hazard	■ Dredging Activity Coordination with Federal Agencies (CMB H) ■ Elfin Forest Resource Management Plan (SLO-Parks) ■ Chorro Flats Acquisition and Enhancement (RCD, SCC) ■ Los Osos Creek Property Conservation Easement Acquisition and Enhancement Project (RCD with SCC /NRCS) ■ Agricultural Preserve Program (SLO P&B) ■ Coordinated Resource Management and Planning (CRMP) Process (CSL RCD) ■ Morro Bay Watershed	■ Los Osos Creek Property Conservation Easement Acquisition and Enhancement Project (RCD with SCC /NRCS) ■ Regional Surface Transportation Program (SLOCOG) ■ Transportation Enhancement Activity Program (SLOCOG) ■ Morro Bay State Estuary Management Plan (RCD) ■ Grants (RCD) ■ Capitol Improvements Program (SLO P&B)	■ Conservation Planning (RCD, NRCS) ■ Planning Area Programs (SLO P&B, SLO Eng.) ⇒ SLO Area Plan ⇒ Estero Area Plan ⇒ San Luis Bay Area Plan (Channel Maintenance, Indian Knob - Open Space Preservation) ⇒ Salinas River Area Plan (Biological Inventory) ■ County/Community Based Transfer of Development Credits Programs (TDC) (SLO P&B)	■ Waterfront Master Plan / Harbor Improvements (CMB H) ■ Harbor Patrol Service (CMB H)	■ Waterfront Master Plan (CMB P&B, H) ■ Tidelands Park Master Plan (CMB P&B, H) ■ County Service Area 9 - Special District (SLO-Eng.) ■ Parks and Recreation Master Plan (SLO-Parks) ■ Natural Areas Plan (SLO-Parks) ⇒ Upper El Chorro Regional Park Natural Area ⇒ Elfin Forest Natural Area ■ County Trails Plan (SLO-Parks) ■ Conservation Planning (RCD, NRCS) ■ County/Communit y Based Transfer of Development Credits Programs (TDC) (SLO P&B)

Programs Addressing Priority Problem <u>HABITAT LOSS</u>

Regillations	Resource	10mmde	Voluntary	Education	Planing
⇒Drilling ■ CEQA - Lead Agency (SLO-P&B) ■ Maps (SLO-P&B) ■ Underground Storage Tanks (SLO-PA)	Enhancement Plan (MBWEP) CSL RCD)	STATE AG	EVOTES.		■ Area Plans (SLO P&B) □ Storm Drain Master Plan (CMB PW)
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC)	■ California Coastal Management Program (CCC) approved by NOAA) ■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB - approved by	■ Environmental License Plate Fund (CCC) ■ Coastal Protection "Whale Tail" License Plate (CCC) ■ Riparian Habitat Conservation	■ Conservation Education Program (CCC) ⇒Adopt-A-Beach Program ⇒Coastal Cleanup Day Agricultural Land	■ Docent Program (DP&R) ■ Pilot Projects (DP&R) ⇒ Project Reach ⇒ Project FamCamp ■ Model Urban Runoff Program (MURP) (CCC)	■ Local Coastal Planning (CCC) ■ Coastal Mapping Program (CCC) ■ Farmland Mapping and Monitoring Program (DOC, Office of Land Conservation)
■ CEQA Review (CCC, DF&G)) ■ Lake or Streambed Alteration Agreement (1603) (DF&G) ■ Water Pollution Control (§ 5650) (DF&G) ■ Take of Fish and Wildlife (DF&G)	NOAA / EPA) (CZARA § 6217) Ocean and Coastal Area Management (DF&G) Fisheries Management (DF&G) Natural Diversity Database/Mapping Program (DF&G)	Program (DF&G) to NRCS in CNG camp SLO) Mass Transportation Program (Caltrans) Urban Streams Restoration Program (DWR) Chorro Flats Acquisition and Enhancement (SCC)	Stewardship Program (DOC, Office of Land Conservation) Williamson Act Program (DOC, Office of Land Conservation) Natural Community Conservation Plans (NCCPs) (DF&G) NRCS Coordinated	■ Conservation Education Program (CCC) ■ Project Wild (DF&G) ■ DF&G Docent Program (DF&G) ■ Science Program (OSPR) ■ General Technical Assistance/Worksho	■ GeoSAR (DOC, Office of Land Conservation) ■ Stream and Watershed Planning and Restoration Program (DF&G) ■ Coastal Protection Review (OSPR) ■ SCC Planning Program (SCC)
 ■ Threatened and Endangered Species (DF&G) ■ Dredging Permits (DF&G0) 	■ Farmland Mapping and Monitoring Program (DOC, Office of Land Conservation)	(RCD led project) ■ Los Osos Creek Property Conservation Easement	Resource Management and Planning (CRMP) Process (DF&G) Volunteer Network	ps (SCC) ■ Coast and Ocean (SLC) ■ Soil Resource Protection Program	■ Environmental Impact Reports (EIRs) (SLC) ■ Design and Local

Programs Addressing Priority Problem <u>HABITAT LOSS</u>

गरस्वाधकारं/ूर्	Resource	Finance	Voluntary 3	in Education	e Planning
■ Pesticide Product Registration (DPR) ■ Restricted Materials and Permitting Program (DPR) ■ Incident Investigation (DPR) ■ Endangered Species Program (DPR) ■ State Lands Leases (SLC) ■ Timber Harvest Plans (MAA with SWRCB (CDFFP) ■ Sustained Yield Plans (SYP) (CDFFP)	■ Land Habitat Management (DP&R) ⇒General Plan - Morro Bay State Park; Montana Del Oro State Park, Los Osos Oaks State Preserve ■ California Wild (Caltrans) ■ Land Resources and Use Program (DWR) ■ Field Services Unit (OSPR) ■ Resource Assessment Unit (OSPR) ■ Regional Monitoring (RWQCB) ■ Morro Bay Watershed Demonstration Projects (SCC, CSL RCD) ■ Chorro Flats Acquisition and Enhancement (SCC, CSL RCD) ■ Los Osos Creek	Acquisition and Enhancement Project (SCC with RCD /NRCS) Fish and Game Preservation Fund (DF&G) Fish and Wildlife Enhancement Act (DF&G) Tabacco Tax and Health Protection Act (DF&G) Endangered Species Tax Check-off Program (DF&G) Environmental Protection Fund (DF&G) Oil Spill Response Trust Fund (OSPR) Science Program (OSPR) Habitat Conservation Fund (SCC) Agricultural land Stewardship Program (DOC)	(OSPR) Pine Pitch Canker Task Force (CDFFP) Morro Bay Watershed Demonstration Projects (SCC, CSL RCD) Biodiversity Council (DF&G)	(DOC)	Programs Program (DLPP) (Caltrans) Office of State Landscape Architecture (Caltrans) Integrated Natural Resources Management Plan (INRMP) (CNG) California Fire Plans (CDFFP) Project Planning and Design (PPD) (Caltrans))
	Property				

Programs Addressing Priority Problem <u>HABITAT LOSS</u>

पुरस्का <u>हिस्</u> कृत्य	Resource	Fig. Finance	Voluntary	ar Education	ar selfleming
	Conservation				
	Easement				
	Acquisition and				·
	Enhancement (SCC)				
·	■ El Moro Elfin				
	Forest Acquisition		·		
,	and Enhancement				
	(SCC)				
	■ Sweet Springs				
	Marsh Enhancement				
	(SCC)				
	Los Osos Greenbelt				
•	Plan (SCC)				
	■ Tidelands Park				
	Improvements (SCC)				
	■ Hazard Removal				
	(SLC)	•	•		
	■ Integrated Training				
	Area Management				
	(ITAM) (CNG)				•
	■ Beach Erosion				
	Control Program		-		
	(DBW) Fire and Resource				
	Assessment		·	•	
	- ' '				
	Program (FRAP) (CDFFP)				
	■ California Fire Plan				
	(CDFFP)				
	■ Forest Stewardship				
	and Stewardship		_		<u>. </u>
	<u> </u>				

Programs Addressing Priority Problem <u>HABITAT LOSS</u>

Regulatory	as nue Resource	to a Pinance	Voluntary	្រាប់ផ្នែះព្រំប្រ	Blanting (250)
	Incentive Program (CDFFP) Environmental Enhancement and Mitigation (EEM) Program (Caltrans) Transportation Enhancement Activities (TEA) Program (Caltrans) Morro Bay Kangaroo Rat Habitat Conservation Plan				
To the second se	(SCC)	FEDERAL A	The same of the sa		
■ National Wetlands Program (EPA) (CWA § 404) ■ NEPA Review (EPA) ■ Section 404 Permits (ACOE) (CWA § 404) ■ Section 10 Permits (ACOE) Rivers and Harbor Act 1899) ■ Endangered Species Protection (USFWS, NMFS): ⇒ Recovery Plans ⇒ Section 7 Consultation	■ National Estuary Program (EPA) (CWA § 320) ■ Dredging Projects (ACOE) ■ Aquatic Ecosystem Restoration Program (ACOE) (WRDA § 206) ■ Project Modifications for Improvement of the Environment Program (ACOE) (WRDA § 1135)	■ Federal Water Pollution Control Program (EPA) (CWA § 106) ■ Planning Assistance to States Program (ACOE) (WRDA § 22) ■ Coastal Wetlands Planning, Protection and Restoration Act Grant Funds (USFWS): ⇒ Small Wetlands	■ Wetlands Reserve Program (NRCS) ■ Coastal Zone Management Program (NOAA) - approved California's CZM-implemented by CCC) ■ Stewardship Incentives Program (USFS)	■ Flood Plain Management Services Program (ACOE) ■ Environmental Research (ACOE- WES): ⇒ Aquatic Plant & Assistance Program ⇒ Wetlands Research Program ⇒ Wetland Regulatory Assistance	■ Planning Assistance to States Program (ACOE) (WRDA § 22) ■ Watershed Surveys and Planning (NRCS) ■ Los Padres National Forest Plan (USFS)

Programs Addressing Priority Problem <u>HABITAT LOSS</u>

			Total Charles		A SECTION OF THE PARTY OF THE P
। १६३ विम्याहरक हो	de en Resource de la	Etirance	Voluntary	Educations	Pknotog
⇒Habitat Conservation Plans Fish and Wildlife Protection (USFWS) (Fish/Wildlife Coordination Act) Dredging and Waterway Modification (USFWS) (CWA § 404) Enforcement (USFWS)	■ Beneficial Uses of Dredged Material Program (ACOE) (WRDA § 204) ■ Coastal Ecosystem Program (USFWS) ■ Environmental Contaminants Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Migratory Bird and Waterfowl Protection (USFWS): ⇒ Migratory Bird Program ⇒ North American Waterfowl Management Plan ■ National Wildlife Refuge System (USFWS) ■ Natural Resource Damage Assessment (USFWS) (OPA'90) ■ Small Watershed Program and Flood Prevention Program (NRCS)	Acquisition Program FESA Section 6 Grant Program (USFWS) Partnerships for Wildlife Program (USFWS) Wildlife Restoration Act Funds (USFWS) Conservation Reserve Program (NRCS, FSA) Environmental Quality Incentives Program (NRCS, FSA) Wildlife Habitat Incentives Program (NRCS) Emergency Conservation Program (FSA) Flood Risk Reduction Program (FSA) Stewardship Incentives Program (USFS)		Program ⇒Dredging Research and Assistance Program National Wetlands Inventory (USFWS) Nonpoint Source Pollution Projects (USFWS) Contaminant Prevention Education (USFWS) Conservation Technical Assistance (NRCS) Conservation of Private Grazing Land Initiative (NRCS) VegSpec (NRCS) Stewardship Incentives Program (USFS) Water Quality/Quantity (USGS)	

Programs Addressing Priority Problem <u>HABITAT LOSS</u>

lkteyületidiky	Resource	<u>Phance</u>	Voluntary	Baugaton	Planning
	■ Watershed Surveys		•		
	and Planning (NRCS)				
	■ Coastal Nonpoint				
	Pollution Control				
	Program (approved by				
,	NOAA / EPA,			·	
•	implemented by CCC,				
	SWRCB) (CZARA § 6217)			_	
	■ National Forest			·	
	System (USFS)			,	
	⇒Los Padres				
	National Forest				
	Plan (USFS)				
	■ Fire Operations and				
	Fire Management				
	Preparedness (USFS)				
	■ Forest and			,	
	Rangeland Research			• •	
	(USFS)				
	Forest Ecosystem				
	Health Monitoring				
	(USFS) ■ Forest Ecosystem				
	Restoration and			r y	
•	Maintenance (USFS)				
	■ Land Acquisition				
1	(USFS)		·		
	■ Coastal and Marine				
	Geology Program				
	(USGS)	·			
	■ National Mapping				

Programs Addressing Priority Problem HABITAT LOSS

MB NEP BASE PROGRAMS ANALYSI, VOL. II

7.2: QUESTIONNAIRE ON PROGRAM EFFECTIVENESS

Morro Bay NEP, Base Program Analysis Questionnaire

We recognize that this questionnaire looks long. You do not have to answer every question, though loing so will help the NEP Base Program Analysis and CCMP development.

- A. Please complete page 1.
- B. To comment on your agency's **regulatory** (e.g. permitting or enforcement) programs, go to pages 2-3.
- C. To comment on your agency's **resource management** (e.g. monitoring or research) programs, go to pages 4-5.
- D. To comment on your agency's **financial mechanisms** (e.g. grant administration, land acquisition, cost-share programs) **and voluntary and public education/technical assistance** programs, go to pages 6-7.
- 3. To comment on your agency's planning (e.g. growth management, land use controls, area plans) programs, go to pages 8-9.
- 4. Accuracy/Completeness Please review the attached fact sheet describing your agency's programs/activities that are related to the priority problems in the Morro Bay Watershed. Please fill in the table on the first page of the fact sheet by checking boxes associated with each priority problem for each program/activity.

			<u>bel</u>	ow		
l.	a) Is the information in this inventory <u>accurate</u> ?		Yes		No	
	b) Is the information in this inventory complete?		Yes		No	
	(If yes, continue to next questions. If no, please write changes below and/o	or ec	lit dire	ctly	on th	ıe
	inventory and return. Add additional pages if necessary.)					

Please check

¹ Priority problems identified as being present in the Morro Bay watershed include those listed below:

> rapid sedimentation

> increased bacterial concentrations

> increased nutrient concentrations

> increased heavy metal/toxins concentrations

> freshwater flow reductions

> adverse impacts to wildlife habitat

Morro Bay NEP, Base Program Analysis Questionnaire — REGULATORY ACTIVITIES & PROGRAMS —

B. For each regulatory program/activity listed in the inventory [or additional program(s) not listed],

	please respond to the following:		
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below)	2.	Check any of the following problems your programs have experienced? (Explain below)
<u> </u>	Clear goals, responsibilities or procedures		Unclear goals, responsibilities, or procedures
	Complementary programs		Competing or conflicting programs
٥	Good coordination/cooperation with other organizations	0	Difficulties in coordinating/cooperating with other organizations
۵	Uniqueness of the program	۵	Duplication of effort
	Sufficient resources	٥	Insufficient resources
0	Support through statutory authority		Lack of statutory authority
	Support of the public		Lack of public support
	Other		Other

Morro Bay NEP, Base Program Analysis Questionnaire — REGULATORY ACTIVITIES & PROGRAMS —

What specific actions could improve the effectiveness of the institutional framework?.
☐ What innovative programs or approaches could serve as a model for future activities?
•
☐ What new efforts should be instituted? Please identify how, when and by who?
☐ In your opinion, what are the most important actions needed to improve the effectiveness of the Institutional framework?
Institutional framework:
□ Other?

3

3/24/98

Morro Bay NEP, Base Program Analysis Questionnaire — RESOURCE MANAGEMENT ACTIVITIES & PROGRAMS —

C.	For each <u>resource management</u> program/activit not listed], please respond to the following:	y li	sted in the inventory [or additional program(s)
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below	2.	Check any of the following problems your programs have experienced? (Explain below)
	Clear goals, responsibilities or procedures		Unclear goals, responsibilities, or procedures
<u> </u>	Complementary programs	<u> </u>	Competing or conflicting programs
	Good coordination/cooperation with other organizations		Difficulties in coordinating/cooperating with other organizations
a	Uniqueness of the program	۵	Duplication of effort
0	Sufficient resources	٥	Insufficient resources
	Support through statutory authority	٥	Lack of statutory authority
	Support of the public	۵	Lack of public support
	Other		Other

Morro Bay NEP, Base Program Analysis Questionnaire — RESOURCE MANAGEMENT ACTIVITIES & PROGRAMS —

٠.	Wł	nat specific actions could improve the effectiveness of the institutional framework?
		What innovative programs or approaches could serve as a model for future activities?
		What new efforts should be instituted? Please identify how, when and by who?
		In your opinion, what are the most important actions needed to improve the effectiveness of the
		Institutional framework?
		\cdot
		Other?

Morro Bay NEP, Base Program Analysis Questionnaire — FINANCIAL, VOLUNTARY INITIATIVE, & EDUCATION/TECHNICAL ASSISTANCE PROGRAMS —

D.	For each <u>finance mechanism</u> , <u>voluntary initiative</u> , <u>& education/technical assistance</u> program/ activity listed in the inventory [or additional program(s) not listed], please respond to the following:				
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below)	2.	Check any of the following problems your programs have experienced? (Explain below)		
	Clear goals, responsibilities or procedures		Unclear goals, responsibilities, or procedures		
	Complementary programs		Competing or conflicting programs		
	Good coordination/cooperation with other organizations	0	Difficulties in coordinating/cooperating with other organizations		
-	Uniqueness of the program	0	Duplication of effort		
Q	Sufficient resources	a	Insufficient resources		
	Support through statutory authority	0	Lack of statutory authority		
	Support of the public		Lack of public support		
	Other		l Other		

Morro Bay NEP, Base Program Analysis Questionnaire — FINANCIAL, VOLUNTARY INITIATIVE, & EDUCATION/TECHNICAL ASSISTANCE PROGRAMS—

}.	W	hat specific actions could improve the effectiveness of the institutional framework?
		What innovative programs or approaches could serve as a model for future activities?
		. •
		What new efforts should be instituted? Please identify how, when and by who?
		Y
		In your opinion, what are the most important actions needed to improve the effectiveness of the Institutional framework?
•		Other?

Morro Bay NEP, Base Program Analysis Questionnaire — PLANNING EFFORTS —

E.	For each <u>planning</u> program/activity listed in the please respond to the following:	ne ii	nventory [or additional program(s) not listed],	
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below)	2.	Check any of the following problems your programs have experienced? (Explain below)	
Ò	Clear goals, responsibilities or procedures	ū	Unclear goals, responsibilities, or procedures	
0	Complementary programs		Competing or conflicting programs	
	Good coordination/cooperation with other organizations	ם	Difficulties in coordinating/cooperating with other organizations	
0	Uniqueness of the program	٥	Duplication of effort	
۵	Sufficient resources		Insufficient resources	
Q	Support through statutory authority	a	Lack of statutory authority	
	Support of the public		Lack of public support	
	Other		Other	

Morro Bay NEP, Base Program Analysis Questionnaire — PLANNING EFFORTS —

3.	W	hat specific actions could improve the effectiveness of the institutional framework?
		What innovative programs or approaches could serve as a model for future activities?
		*
		What new efforts should be instituted? Please identify how, when and by who?
		In your opinion, what are the most important actions needed to improve the effectiveness of the Institutional framework?
		Institutional namework:
•	_	. 01 . 0
	u	Other?

MB NEP BASE PROGRAMS ANALYSI, VOL. II

7.3: RESPONSES TO QUESTIONNAIRE

THE ORIGINAL RESPONSES TO THE QUESTIONNAIRE ARE INCLUDED IN THE COPY OF THE BASE PROGRAMS ANALYSIS FOR THE MORRO BAY NATIONAL ESTUARY PROGRAM COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN, VOLUME II: EFFECTIVENESS ANALYSIS RETAINED AT THE MORRO BAY NATIONAL ESTUARY PROGRAM OFFICE

•

1 •

BASE PROGRAMS ANALYSIS FOR THE MORRO BAY NATIONAL ESTUARY PROGRAM COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN

VOLUME I: INSTITUTIONAL INVENTORY OF PROGRAMS

Prepared by

Lisa Horowitz McCann Central Coast Regional Water Quality Control Board

Cy R. Oggins
California Coastal Commission

and

Audrey Blumeneau California Coastal Commission

for the

Morro Bay National Estuary Program

Melissa Mooney Program Director

FINAL
DRAFT
DECEMBER 1998

BASE PROGRAMS ANALYSIS FOR THE MORRO BAY NATIONAL ESTUARY PROGRAM COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN

VOLUME I: INSTITUTIONAL INVENTORY OF PROGRAMS

Prepared by

Lisa Horowitz McCann
Central Coast Regional Water Quality Control Board

Cy R. Oggins
California Coastal Commission

and

Audrey Blumeneau California Coastal Commission

for the

Morro Bay National Estuary Program

Melissa Mooney Program Director

FINAL DRAFT DECEMBER 1998

Acknowledgments

Preparation of this document originated soon after the Morro Bay Estuary was accepted into the US Environmental Protection Agency's National Estuary Program (NEP). Staff of the Central Coast Regional Water Quality Control Board (Regional Board) was assigned to prepare the Base Programs Analysis for the Morro Bay NEP. At that time, the former Program Director, Dave Paradies, and the former Scientific Director, Karen Worcester (an Environmental Specialist with the Regional Board), provided direction and support. As the NEP developed, these two directors saw an opportunity to partner with the California Coastal Commission, as that agency's staff was actively involved with encouraging implementation of nonpoint source pollution management measures in coastal areas (through their participation in the State's process of upgrading the California Nonpoint Source Management Program). Tami Grove, a Deputy Director of the California Coastal Commission, shared this view. She and Vern Jones, Supervising Environmental Specialist with the Regional Board, approved an interagency agreement between the State Water Resources Control Board and the California Coastal Commission that brought the co-authors of the report together. Along the way, Katie Kropp, Environmental Specialist with the Regional Board and Technical Director for the National Estuary Program, provided information about the roles and interests of the various agencies and represented the views of the members of the general public participating in the Program. We also acknowledge the hard work and flexibility of the student assistants/interns who assisted us--Jonathan Civita and Jon Boland working for the Regional Board, and Michael Rasnick, working for the California Coastal Commission. Finally, this project could not have been completed without the input and feedback we received from representatives of the local, state and federal agencies included in the Institutional Inventory.

TABLE OF CONTENTS

			Page (s)
1.0	INT	RODUCTION	1-5
	1.1	THE PURPOSE OF THE BASE PROGRAMS ANALYSIS	
	1.2	THE PURPOSES AND GOALS OF THE MORRO BAY NEP	
	1.3	PRIORITY PROBLEMS	
	1.4	SETTING	•
2.0	INST	TITUTIONAL INVENTORY OF PROGRAMS	613
	2.1	LOCAL/REGIONAL AGENCIES	1455
•	2.2	STATE AGENCIES	56146
	2.3	FEDERAL AGENCIES	147187
3.0	REF	ERENCES AND PERSONS CONSULTED	188—191
	3.1	REFERENCES	188
	3.2	PERSONS CONSULTED	188190
	3.3	SPECIAL PRIVATE PARTNERS	191

•

1.0 INTRODUCTION

This document contains Volume I of the Base Programs Analysis for the Morro Bay National Estuary Program's Comprehensive Conservation and Management Plan. Volume I of the Base Programs Analysis includes the Institutional Inventory of Programs. The Institutional Inventory is the first step in the Base Programs Analysis. It includes descriptions of programs being implemented by several agencies to manage and protect the Morro Bay estuary and watershed.

Volume II of the Base Programs Analysis includes the Effectiveness Analysis of the Institutional Framework laid out in Volume I: Institutional Inventory of Programs.

1.1 THE PURPOSE OF THE BASE PROGRAMS ANALYSIS

The purpose of the Base Programs Analysis is to assist the Morro Bay National Estuary Program (NEP) in developing effective mechanisms for addressing priority problems and their causes.

Section 320 of the Clean Water Act established the National Estuary Program to identify nationally significant estuaries threatened by pollution, development, or overuse and to promote the preparation of comprehensive management plans to ensure their ecological integrity. Section 320 states that one purpose of National Estuary Programs is development of plans to coordinate implementation of the CCMP by local, state and federal agencies. The Base Programs Analysis is a process to facilitate this purpose.

The Base Programs Analysis offers decision-makers a clearer picture of the existing institutional "infrastructure" or framework of the estuary and watershed. It serves as a management characterization of the estuary and watershed through a process of:

- describing the framework of institutions and programs within which a CCMP will be implemented;
- assessing the effectiveness of that framework in managing and protecting the estuary's resources; and
- recommending, in conjunction with the technical characterization, issues to be addressed in the CCMP based on potential management enhancements or alternatives.

This Base Programs Analysis was developed by following the guidance in the document National Estuary Program Guidance, Base Programs Analysis (U.S EPA, 1993). Additionally, it was developed by considering the approach currently underway by State agencies to identify actions consistent with the Coastal Zone Act Reauthorization Amendments. Integration and coordination of local needs with this state process should result in more technical and financial support to implement the actions developed for the CCMP. The approach included the following:

• identification of issues and actions to be addressed in the CCMP based on the results of the effectiveness analysis;

- evaluation of applicable management measures from those included in the Management Measure Review Document (California Coastal Commission and State Water Resources Control Board, 1998) developed under authority of CZARA; and
- description of how recommended actions for the CCMP implement the applicable management measures.

1.2 THE PURPOSES AND GOALS OF THE MORRO BAY NEP

1.2.1 The purposes of the Morro Bay NEP

The Morro Bay NEP includes an emphasis on characterization and trend detection as set forth in several of its seven purposes and objectives:

- 1) Assess trends in the estuary's water quality, natural resources, and uses of the estuary;
- 2) Collect, characterize and assess data on toxics, nutrients, and natural resources within the estuarine zone to identify the causes of environmental problems;
- 3) Assess pollutant loadings in the Estuary and relate them to observed and potential changes in uses of the estuarine zone, water quality and natural resources;
- 4) Develop a comprehensive conservation and management plan that recommends priority corrective actions and implementation schedule addressing point and nonpoint sources of pollution to restore and maintain the chemical, physical, and biological integrity of the estuary, including restoration and maintenance of water quality, a balanced indigenous population of shellfish, fish, and wildlife, and recreational activities in the estuary, and assure that the designated uses of the estuary are protected.
- 5) Develop plans for the coordinated implementation of the plan by the states as well as federal and local agencies participating in the conference;
- 6) Monitor the effectiveness of actions taken pursuant to the Plan;
- 7) Ensure that federal assistance and development projects (per Executive Order 12372, September 17, 1983), are consistent with the Management Plan, meet the requirements of CWA Section 320(b)(7) and further the goals of the Plan.

1.2.2 The Goals of the Morro Bay NEP

In addition, the Morro Bay NEP has adopted its own goals. The goals outline the resources of the bay and watershed that the program strives to protect and enhance. In order to measure progress towards meeting these goals, appropriate monitoring programs must be developed and implemented.

1) Slow the process of bay sedimentation through implementation of management measures which address erosion and sediment transport;

- 2) Reestablish healthy steelhead trout habitat in Chorro and Los Osos creeks through measures including reduction of sediment loading in gravels, stabilization of riparian corridors, removal or mitigation of migration barriers, improvement of water quality, and restoration and maintenance of adequate fresh water flow.
- 3) Ensure that bay water remains of sufficient quality to support a viable commercial shellfish mariculture industry, safe recreational uses, healthy eelgrass beds, and thriving fish and shellfish populations.
- 4) Ensure the integrity of the broad diversity of natural habitats and associated native wildlife species in the bay and watershed.
- 5) Maintain watershed functional integrity through appropriate riparian corridor management, impervious surface management, fire management, and grazing management.
- 6) Protect social, economic, and environmental benefits provided by the bay and watershed through comprehensive resource management planning.
- 7) Promote public awareness and involvement in estuarine management issues through outreach, educational programs, and the use of volunteers in ongoing bay monitoring and other programs.

1.3 PRIORITY PROBLEMS

The following issues have been identified as priority problems in the bay and watershed:

- Sedimentation
- Increased Bacterial Concentrations
- Increased Nutrients
- Heavy Metals and Other Toxins
- Reduced Fresh Water flows
- Habitat Loss

<u>Sedimentation</u> - Erosion in the watershed and sedimentation in the estuary are the greatest threats to Morro Bay. If sediment deposition in the estuary continues at the present rate, the health of the estuary is in severe jeopardy. Under normal conditions, an estuary and lagoon such as Morro Bay, could have a life measured in thousands of years (USDA/SCS, 1989a). However, if there is no abatement of sediment deliveries to the estuary, its life expectancy is likely limited to approximately 300 years (Haltiner, 1988), with parts of the southern section of the bay disappearing much sooner. The economic and environmental impact of this loss would be severe.

<u>Increased Bacterial Concentrations</u> - Elevated levels of bacteria present a potential health threat to those who utilize the bay for recreational purposes and economic threats to those who depend upon the resources of the bay for their livelihood. Elevated levels of bacteria are an indication that other pollutants, such as pathogens and viruses, may be present.

Bacteria levels in Morro Bay have increased noticeably since 1993. The increased levels have already impacted local shellfish growing operations. Rising levels of bacteria could adversely impact recreational uses of the bay. These pollutants can have adverse effects on humans and many marine species who utilize the bay.

<u>Increased Nutrients</u> - Sediment and fertilizer runoff from agricultural land contains significant amounts of nitrogen and phosphorus as well as organic matter. Nutrients are also added by animal waste runoff into waterways. Other nutrient sources include the wastewater discharge at the California Men's Colony treatment plant and septic systems in Los Osos and Baywood Park. These increased nutrient additions to the creeks and estuary can result in increased algal growth and reduced levels of dissolved oxygen in the water. The reduced oxygen contents can adversely affect aquatic organisms, particularly fish. This problem may increase as grazing lands are converted to higher intensity agriculture and in sections of the watershed, to horse operations and residential parcels.

Heavy Metals and Other Toxins - Inactive mines in the upper watershed have resulted in high levels of heavy metals, particularly nickel and chromium, being found associated with sediments eroding from these areas. Mine tailings and dredging spoils have been used for years in the upper watershed as fill and as road surface material. Dust from this soil may present a risk for those frequently exposed to it, as nickel is a lung carcinogen. Neither nickel nor chromium have been detected in significant quantities in surface waters; they are found primarily in association with soil particles. Their presence in sediment could impact the health of benthic fauna.

The Los Osos Landfill in the Los Osos Creek watershed may be another source of pollutants. Until early 1988, the landfill was the waste dump for residential wastes, toxic materials including motor oil, pesticide containers, lubricants, and other domestic pollutants. Pollutant discharges from the landfill have not been found in surface water. However, recent studies (Engineering Science, 1987) show low level hydrocarbon contamination in two wells adjacent to the landfill. Erosion of contaminated sediment from the landfill could be a concern. For example, during major storms in 1983, portions of the buried trash were exposed and eroded by a tributary of Los Osos Creek. Monitoring of water continues in the estuary through the Bay Protection and Toxic Cleanup Program (State Water Resources Control Board, 1988).

Other potential sources of heavy metals and other toxic pollutants include urban runoff discharges from the streets of the city of Morro Bay and the community of Los Osos, liveaboard boaters, boat painting and cleaning, and fuel docks

Limited mussel data is available as an indicator of the bay's quality with respect to metals and organics. These data do, however, indicate that a potential for problems exists in Morro Bay. Efforts are needed to prevent one-time occurrences of toxic concentrations from becoming chronic problems.

Reduced Fresh Water Flows - The Morro Bay watershed is the source of drinking water for the communities of Los Osos (population about 16,000), the California Men's Colony (population about 6-8,000), and the city of Morro Bay (population about 10,000). At present, groundwater recharge of aquifers comes from the same sources that bring fresh water to the estuary, and increases in ground and surface water diversion directly affect the flow of creeks, the number of

MB NEP Base Programs Analysis, Vol. I

flow days, and wildlife and botanic values associated with a fresh water supply. Fresh water flows from the two main creeks (a third was diverted from the bay in the 1940's) entering the bay have been reduced, and at times completely interrupted, through a combination of agricultural and urban uses.

<u>Habitat Loss</u> - Impacts to wetlands around the bay are closely linked to sedimentation. Seasonal runoff of fresh water produces measurable turbidity in mid-estuary zones (eelgrass), the duration of which is significantly longer in a simple flow system like a mature river (Phillips, 1984). Increased turbidity leads to decreased eelgrass growth, and reduces the depth range at which it will occur in the estuary. Desiccation through increased sediment accumulation is a major factor limiting the upper intertidal distribution of eelgrass. There appears to be no species succession in the eelgrass stage of the ecosystem. Eelgrass is the initial colonizer as well as the climax stage of development (Phillips, 1984).

The salt marsh and mudflats, while increasing in area at the estuary edge, does so at the expense of the eelgrass beds and deep water zones. With increased sedimentation, salt marsh habitat is being replaced in the upper delta by lower-salinity tolerant species. These include the introduced and extremely invasive Hoary Cress (Cardaria draba). Habitat quality at this expanding interface has been severely degraded (Cicero, 1991). Also invasive in riparian woodlands adjacent to the delta is German Ivy, again probably exacerbated by disturbed soils resulting from sedimentation.

1.4 SETTING

The Morro Bay estuary encompassess about 2,300 acres of mudflats, eelgrass beds, tidal wetlands, and open water. The project area encompasses the entire 48,000-acre Morro Bay watershed and estuary. The watershed is comprised of the Chorro Creek drainage (27,000 acres) and the Los Osos Creek drainage (17,000 acres).

Morro Bay supports the most significant wetland system on California's south-central coast. It also supports large tourism and commercial fishing industries, oyster farming and other business and recreational interests. The estuary is an essential link in the Pacific Flyway, providing one of the state's largest waterfowl habitats south of San Francisco. It supports a rich eelgrass resource and provides habitat for a number of endangered and/or threatened species, including, but not limited to: steelhead trout, California red-legged frog, tidewater goby, Morro Bay kangaroo rat, southern sea otter, and western snowy plover.

Major land uses in the watershed include rangeland (grassland), cropland, State and City parks and beaches, and urban development.

.

2.0 INSTITUTIONAL INVENTORY OF PROGRAMS

The purpose of the Institutional Inventory is to identify an array of available mechanisms to protect the estuary that include and go beyond existing institutional capabilities for implementing preventative and corrective actions. It aims to provide a clearer picture of the existing institutional framework. It also presents a tool to examine opportunities for environmental improvements.

The Institutional Inventory is the first step in the Base Programs Analysis It includes descriptions of programs being implemented by several agencies to manage and protect the Morro Bay estuary and watershed. The programs are contained in "fact sheets" developed for each agency responsible for implementation of the programs. The collection of all the fact sheets for all the agencies with programs that contribute to management and protection of the estuary and watershed make up the Institutional Inventory. An example fact sheet is presented in Table 1 to illustrate what information is provided in the inventory and how the programs are organized in each fact sheet. An index of agency fact sheets included in the Institutional Inventory is presented in Table 2.

Each fact sheet includes a summary table that lists the key programs/activities. The table shows which priority problem is addressed by that program and which institutional framework category applies to the program. The institutional framework categories are described below. Following the summary table, each fact sheet has a description of the mission and authorities (Section I) and jurisdiction of each agency (Section II). Section III, Functions lists and describes the relevant programs and activities of the agency. The end of each fact sheet has a brief description of the administration and organization of each agency (Section IV) and the agency's address and phone number.

In Section III, Functions, the programs are grouped into institutional framework categories based on those recommended in the document *National Estuary Program Guidance, Base Programs Analysis* (US EPA, 1993). Grouping the programs into these categories facilitates understanding of the overall institutional framework created by all these programs. The categories are regulatory programs/activities, resource management programs/activities, finance mechanisms, and other non-regulatory programs/activities. "Other non-regulatory programs/activities" includes three additional types of programs. These are voluntary/incentive programs/activities, public education and technical assistance programs/activities, and planning programs/activities. These categories are defined as follows:

Regulatory Programs

This includes activities that are required by statutes and codes and those that are legally authorized. Typical activities are development and review for consistency with legal standards and requirements, issuance of orders or permits, ordinances, and enforcement. Activities implemented through regulatory mechanisms are often similar to activities implemented in other categories (e.g., erosion control structures). The distinction is that these activities are required by and enforceable with a legal authority. Examples that were considered include:

- development and enforcement of ordinances;
- water quality permitting, discharge prohibition and enforcement;

MB NEP Base Programs Analysis, Vol. I

- standard setting/criteria development;
- wetlands protection/dredging/dumping restrictions; and
- coastal zone management plans

Resource Management Programs

This includes activities that are implemented for consistency with goals, policies and guidance. Typical activities are monitoring and assessment of resources, and development and implementation of resource enhancement and protection plans. Activities implemented through resource management programs may be similar to activities implemented in other categories (e.g. land acquisition). Examples that were considered include:

- agricultural area preservation
- fisheries habitat and wildlife protection
- nonpoint source pollution control

Finance Mechanisms

These include tools available to agencies to provide funding or financial resources to other agencies and/or landowners to pay for actions to manage and protect the estuary and watershed. Typical activities are those related to grants, low interest loans, cost-share programs, taxincentives and land acquisition. Activities implemented through finance mechanisms may be similar to activities implemented in other categories (e.g. a grant to pay for erosion control).

Other Non-Regulatory Programs

Voluntary Initiatives/Incentive Programs

These include efforts to gain voluntary involvement by agencies and/or landowners. Typical activities are encouragement of interagency cooperation, raising public awareness, efforts to change individual behavior, and establishing partnerships and commitments to implement actions. Activities implemented through voluntary initiatives/incentive programs may be similar to activities implemented in other categories (e.g. volunteer monitoring).

Public Education and Technical Assistance

These include outreach and education efforts both to provide public awareness and specific assistance on technical issues (such as implementation of particular pollution control techniques). Typical activities are public presentations by agency BPA staff at workshops and meetings, training courses for agency BPA staff and landowners, creation and distribution of written materials, one-on-one site visits and interactions with landowners to resolve a specific problem. Activities implemented through public education and technical assistance programs may be similar to activities implemented in other categories (e.g. training on installation of erosion control structures).

Planning Efforts

These include planning activities related to growth management and land use. Typical activities are General Plan and other plan updates and adoption, and project review and approval. Activities implemented through planning efforts may be similar to activities implemented in other categories (e.g. require open space as a condition for approval of a project).

In the Institutional Inventory, the fact sheets are grouped by local, state, and federal agencies. There are 12 local agencies, 21 state agencies, and 10 federal agencies included. The agencies are identified as either primary or secondary agencies. Primary agencies are those with the most direct involvement in management or protection of the estuary (as related to the six priority problems of the NEP). There are nine primary local agencies, nine primary state agencies, and four primary federal agencies.

Base Programs Analysis staff consulted several sources of information in developing the Institutional Inventory. BPA staff reviewed existing documents developed for the nomination of the Morro Bay Estuary for the NEP and other documents developed by the program during the initial planning process. Additionally, BPA staff attended NEP workgroup and committee meetings (usually the Watershed Committee meetings). BPA staff reviewed the Internet websites, brochures, plans and regulations of the agencies considered for the Institutional Inventory. BPA staff also contacted representatives of the agencies considered for the Institutional Inventory. Comments on draft fact sheets were solicited from agencies through distribution of a questionnaire (see Volume II. Effectiveness Analysis).

TABLE 1 **EXAMPLE FACT SHEET**

Agency	X					
	Priority	problems	addressed	(/)*		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
	1			1		Program A (R)
. ✓		1			1	Program B (R)
	√			1		Program C (RM)
			1	1		Program D (FM)
		1	✓		1	Program E (NR)
✓	√	1				Program F (NR)
	/			1		Program G (NR)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. **MISS8ION AND AUTHORITIES**

The mission of Agency X is to protect and monitor the quality of water in the state.



II. **JURISDICTION**

Agency X has statewide jurisdiction regarding water quality.

III. FUNCTIONS (REGULATORY, RESOURCE MANAGEMENT, FINANCE MECHANISMS, OTHER NON-REGULATORY)

A. Regulatory Activities/Programs

- ◆ Program A This program is authorized by Section 1 of Act H20. Agency X administers this program by ensuring that any disturbance to water quality is reported, documented and inspected if necessary. Agency X can require remediation alternatives to alleviate the water quality problem.
- Program B Agency X issues permits for any construction activity occurring within a wetland or streambed.

B. Resource Management Activities/Programs

Program C - Agency X works with landowners to develop plans to ensure water quality will be maintained on their property.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations > Reduced Flow = freshwater flow reductions

> Nutrients = increased nutrient concentrations > Habitat Loss = adverse impacts to wildlife habitat

TABLE 1 EXAMPLE FACT SHEET (CONTINUED)

C. Finance Mechanisms

♦ Program D - Through the "Water Watcher" program, Agency X issues grant funds for water quality projects.

D. Other Non-Regulatory

- ♦ Program E Creeks and streams are surveyed monthly by volunteers to obtain profiles and other important water flow data.
- ♦ Program F—This program is a nationwide environmental education program. Agency X provides educational opportunities to the public regarding water quality and protection.

IV. ADMINISTRATION

Agency X is administered by a Director who is appointed by the Governor. The Director has authority to direct most of the activities implemented by a staff of 500 technical employees. However, annual plans must be approved by the Governor. Agency X operates out of a headquarters office and five regional offices.

Agency X

Headquarters Addresses:

1234 Water Way

9876 River Run

Flood, CA 98036

Waterville, CA 83648

TABLE 2
INDEX OF AGENCY FACT SHEETS IN INSTITUTIONAL INVENTORY

SECTION 2.1	LOCAL/REGIONAL AGENCIES	
AGENCY NUMBER	AGENCY NAME	PAGE IN SECTION
Priority Agencies		
Ll.	City of Morro Bay — Planning and Building Department	15
L2.	City of Morro Bay — Public Works Department	20
L3.	City of Morro Bay — Harbor Department	23
L4.	San Luis Obispo County — Planning and Building Department	26
L5.	San Luis Obispo County — Public Health Dept., Environmental Health Division	34
L6.	San Luis Obispo County — Engineering Department	37
L7.	San Luis Obispo County — Agriculture Department	40
L8.	San Luis Obispo County — General Services, Parks	44
L9.	Coastal San Luis Resource Conservation District (RCD)	47
Secondary Agencies		
L10.	City of Morro Bay — Recreation and Parks Department	50
L11.	Air Pollution Control District of San Luis Obispo County (APCD)	52
L12.	San Luis Obispo County Council of Governments (SLOCOG)	54

TABLE 2 (CONT.) INDEX OF AGENCY FACT SHEETS IN INSTITUTIONAL INVENTORY

SECTION 2.2	STATE AGENCIES	-
AGENCY NUMBER	AGENCY NAME	PAGE IN
		SECTION
Priority Agencies		
S1.	California Coastal Commission (CCC), Resources	57
	Agency	
S2.	Department of Fish and Game (DFG), Resources Agency	63
S3	Department of Fish and Game, Office of Oil Spill Prevention and Response (OSPR), Resources Agency	69
S4	Department of Health Services (DHS), Health & Welfare Agency	75
S5	Department of Pesticide Regulation (DPR), Cal/EPA	80
S6	Regional Water Quality Control Board (RWQCB), Cal/EPA	85
S7	State Coastal Conservancy (SCC), Resources Agency	98
S8	State Lands Commission (SLC)	103
S9	State Water Resources Control Board (SWRCB), Cal/EPA	106
Secondary Agencies		
S10	California Conservation Corps, Resources Agency	116
S11	California Integrated Waste Management Board (CIWMB), Cal/EPA	118
S12	California National Guard – Camp San Luis Obispo, Military Department	121
S13	Department of Boating and Waterways (DBW), Resources Agency	124
S14	Department of Conservation (DOC), Resources Agency	127
S15	Department of Forestry and Fire Protection (CDF), Resources Agency	130
S16	Department of Parks and Recreation (DP&R), Cal/EPA	33
S17	Department of Toxic Substances Control, Cal/EPA	135
S18	Department of Transportation (Caltrans), Business, Transportation & Housing Authority	139
S19	Department of Water Resources (DWR), Resources Agency	141
S20	Office of Environmental Health Hazard Assessment (OEHHA), Cal/EPA	144
S21	University of California, Cooperative Extension Service (U.C. Extension)	145

TABLE 2 (CONT.) INDEX OF AGENCY FACT SHEETS IN INSTITUTIONAL INVENTORY

SECTION 2.3	FEDERAL AGENCIES	
AGENCY NUMBER	AGENCY NAME	PAGE IN SECTION
Priority Agencies		
FI.	U.S. Environmental Protection Agency (EPA)	149
F2.	U.S. Army Corps of Engineers (ACOE)	157
F3.	U.S. Fish and Wildlife Service (USFWS), U.S. Dept. of the Interior	162
F4.	Natural Resources Conservation Service (NRCS), U.S. Dept. of Agriculture (USDA)	168
Secondary Agencies		
F5.	Farm Service Agency (FSA), USDA	175
F6.	National Oceanic and Atmospheric Administration (NOAA), U.S. Dept. of Commerce	176
F7.	NOAA, National Marine Fisheries Service (NMFS), U.S. Dept. of Commerce	180
F8.	U.S. Coast Guard (USCG)	182
F9.	U.S. Forest Service (USFS), USDA	184
F10.	U.S. Geological Survey (USGS), U.S. Dept. of the Interior	187

MB NEP Base Programs Analysis, Vol. 1

2.1 LOCAL/REGIONAL AGENCIES

Primary Agencies Involved In Protection of The Morro Bay Estuary

- L1. City of Morro Bay Planning and Building Department -- Page 15
- L2. City of Morro Bay Public Works Department Page 20
- L3. City of Morro Bay Harbor Department -- Page 23
- L4. San Luis Obispo County Planning and Building Department -- Page 26
- L5. San Luis Obispo County Public Health Dept., Environmental Health Division -- Page 34
- L6. San Luis Obispo County Engineering Department -- Page 37
- L7. San Luis Obispo County Agriculture Department -- Page 40
- L8. San Luis Obispo County General Services, Parks -- Page 44
- L9. Coastal San Luis Resource Conservation District (RCD) -- Page 47

Secondary Agencies

- L10. City of Morro Bay Recreation and Parks Department -- Page 50
- L11. Air Pollution Control District of San Luis Obispo County (APCD) -- Page 52
- L12. San Luis Obispo County Council of Governments (SLOCOG) -- Page 54

→ L1.	City of	Morro E	Bay Pla	anning a	nd Build	ing Department
	Priority	problems	addressed	√)*		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	(relating to the priority problems)		
. 1	✓ .	1	1	1	√	General Plan (R)
1	1	1	1	√	√	• LCP (R)
1	√	1	1	1	√	• CEQA Responsibilities (R)
						• City Plans (approved by the planning commission) (RM)
-	-	_	-	-	_	Waterfront Master Plan (NR)
	✓.					Tidelands Master Plan (NR)

I. MISSION AND AUTHORITIES

The City of Morro Bay is dedicated to the preservation and enhancement of the quality of life, and the City strives to provide a level of municipal service and safety consistent with and responsive to the needs of the public. The City exercises its local planning and land use functions pursuant to State Planning and Zoning Law, the Subdivision Map Act, the California Coastal Act, and the California Environmental Quality Act (CEQA). Program authorities include: (1) General Plan; (2) Morro Bay Local Coastal Program (LCP)/Land Use Plan (LUP); (3) Zoning Ordinance (Municipal Code, Title 17); (4) Subdivision Ordinance (Municipal Code, Title 16); and (5) Municipal Code, Chapter 14, Building Section.

II. JURISDICTION

The jurisdictional limits of the City extend from the oil terminal at the north end of Morro Bay to Morro Bay State Park at the south. The Morro Bay watershed boundary runs through the City's southern portion. Most of the City lies within the coastal zone except for a small area in the north foothills. The City's LUP applies to everything except this small area. The LUP divides the City into 10 separate planning areas defined by distinct characteristics found throughout the City. These areas are: North Morro Bay, Atascadero Beach, Del Mar, Morro Highlands, Morro Rock, Bayfront, Central Morro Bay, Morro Bay State Park, Harbor and Navigable Ways, and Morro Bay Sandspit Storm drains in the residential/commercial portions of the City that lie along the Morro Bay waterfront have outlets to the bay.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- ♦ General Plan/LCP (State Planning and Zoning Law; Subdivision Act; California Coastal Act of 1976; California Environmental Quality Act) The City guides development through its General Plan and LCP. The policies of these plans are carried out through the Zoning Ordinance and other regulations. The City sets specific criteria for, among other things, intensity and density of land use via a public participation process.
- Ordinances and Other Regulations The City implements and enforces the ordinances and regulations that contain specific criteria to guide development consistent with the General Plan and LCP policies. Implementation activities include project application review, permitting, inspections and stop work orders among other things.
 - General Plan (1988) (California Government Code, §§ 65300 et. seq.) The General Plan outlines the City's policies and goals for development. The General Plan contains both "policies" and "programs." Policies, which are specific statements of principle or of guiding actions, represent a general direction that a governmental agency sets to follow in order to meet its goals and objectives before undertaking an action project. A program is an action, activity, or strategy carried out in response to adopted policy to achieve a specific goal or objective. Policies and programs establish the "why," "how" and "when" for carrying out the "what" and "where" of goals and objectives. (California Planning Roundtable, California General Plan Glossary.)
 - LCP (California Coastal Act of 1976; P.R.C. §§ 30000). The California Coastal Commission certified the City's LUP in October 1982. In January 1983, the City began issuing coastal development permits (CDPs) for development in the coastal zone. In October 1984, the LCP (including ordinances) was certified, at which time the City assumed full permitting authority. The LUP, which is designed to plan and provide criteria for evaluating future development within the City and to provide for orderly growth, includes policies that address runoff, flow, and habitat loss.
 - The Morro Bay City Zoning Ordinance (ZO) (Municipal Code Title 17) (Government Code § 56100 et seq. and § 65800 et seq.). The purpose of the ZO is to promote the growth of the City in an orderly manner and to promote the public health, safety, peace, comfort and general welfare of the City by establishing regulations pertaining to uses of land and uses, location, height, bulk, size and types of buildings and open spaces around buildings in certain districts; providing for the administration and enforcement of such regulations and prescribing penalties for violations thereof.
 - Building Code Ordinance of the City (Buildings and Construction, Title 14) (Government Code § 38601 & 38660; Health and Safety Code § 17910 et seq.). The purpose of the Building Code Ordinance is to provide minimum requirements for the protection of health, property, safety and welfare of the general public. Examples of ordinances that pertain to the protection of the bay and to water quality, include sanitation issues addressed in § 14.52.070 (related to floating docks and marinas); the reduction of capacity of city owned and/or operated wells and the prevention of groundwater

contamination due to pollution addressed in § 14.68 (construction, repair, modification, and destruction of wells); and flood prevention including methods and provisions which restrict uses that would result in erosion hazards or increase erosion potential (addressed in § 14.72).

- The City of Morro Bay Subdivision Ordinance (Subdivisions Title 16.04) (California Subdivision Map Act; Government Code § 66410 et seq.). The Subdivision Ordinance regulates and controls the initial design and improvement of subdivisions (common interest developments). The ordinance, among other requirements, must provide for proper grading and crosion control, including the prevention of sedimentation or damage to offsite property.
- Permitting (General Plan and LCP) Permits issued include coastal development permits (CDPs) for development in the coastal zone, use permits, conditional use permits, minor use permits, and emergency permits.
- ◆ CEQA (California Environmental Quality Act of 1970; Public Resources Code §§ 21000 et seq.) Within its jurisdiction, the City of Morro Bay is often a CEQA lead agency for conducting or approving projects. The City's responsibilities under CEQA include: (1) to determine if a development proposal is a "project" subject to CEQA review; (2) to conduct an Initial Study for projects requiring CEQA review; and (3) to prepare, after completing the Initial Study, either a Notice of Preparation of an Environmental Impact Report (EIR) (for projects which may cause significant adverse environmental effects that cannot be reduced to insignificant levels by implementation of feasible mitigation measures) or a Negative Declaration (the lead agency's explanation of why a project will not create any significant adverse environmental impacts and, therefore, does not require preparation of an EIR).

B. Resource Management Activities/Programs

The resource management programs and activities of the City Planning and Building Department overlap with the regulatory and planning functions described in this section, as well as with programs/activities conducted by the City's Public Works, Harbor, and Parks Departments.

C. Finance Mechanisms

This agency does not implement and finance mechanism activities or programs.

D. Voluntary Initiatives/Incentive Programs (i.e., public and/or private efforts)

Pursuant to State Planning and Zoning Law, Subdivision Map Act, Coastal Act of 1976, and CEQA, the City develops plans by soliciting staff recommendations, presenting the recommendations to the public for comment, responding to comments and presenting revised plans to the City Council for approval. Plans are reviewed and updated periodically. The Planning and Building Department reviews and recommends decisions on development in the City pursuant to various plans approved by the Planning Commission

♦ Waterfront Master Plan — This plan outlines ideas for future City actions and possible capitol projects between Morro Rock and Tidelands Park. The waterfront area of Morro Bay

is comprised of four subareas: Morro Rock/Coleman Park, T-Piers/Fishermen Working Area, Embarcadero Visitor Area, and Tidelands Park. The City Council adopted this plan May 28, 1996, however, the City's LCP must be amended to allow for this plan to be implemented (the plan recommends zoning amendments and guidelines that entail changes to the LCP), and therefore it must go to the Coastal Commission for review and approval.

- ◆ Tidelands Park Master Plan This plan addresses recreational and other uses of Tidelands Park—an approximately nine-acre site that is bordered on the east by small coastal bluffs and private residences, and on the south and west by the Harbor. Tidelands Park contains a recreational boat launch ramp and commercial fishing boat slips. A lateral dock with a vessel sewage pumpout facility has been added in recent years. The dock improves the public boat launch and ramp area and allows additional pedestrian access to the waterfront. The Plan is jointly implemented by staff of the Harbor and Recreation and Parks Departments.
- ♦ Water Management Plan (CMB General Plan Program LU-79, 80). This plan addresses how the City will meet its current and future (based on maximum projected population) demand for water. City water demand is met through existing ground water wells, the State Water Project, water conservation programs, and reclaimed water. Water produced at a desalination plant (currently idle) can be used to make up for shortfalls in other water sources during droughts and to blend with other sources as needed to meet drinking water quality standards.
- ♦ Wastewater Reclamation Program (CMB General Plan Program LU-80.1) When implemented, this program would provide approximately 770 acre-feet per year of reclaimed water for agriculture and golf courses.
- ♦ Master Water Plan (CMB General Plan Program C-35.1) This plan describes deficiencies in the size and condition of the City's water pipelines, and proposes improvements to be completed in five 5-year phases. Recommended improvements include correcting lines that experience low pressure, and replacing lines that leak or that are too small to provide for domestic and fire flows.
- ♦ Storm Drain Master Plan The Master Plan incorporates current land use information and future development policies consistent with the City's General Plan Housing Element, and LCP into a plan to meet the City's storm drainage needs. The Plan maps the City's urban runoff collection and discharge points (21 outlets drain into Morro Bay and six drain into the ocean), and includes design parameters to add silt/grease traps to the storm drains. The plan also documents construction projects necessary to convey storm runoff, and recommends measures to implement the master plan including budgeting and financing alternatives and drainage ordinances.
- ♦ Wastewater Treatment Program (General Plan Policy LU-81/CMB LUP Policy 3.06) The City is continuing a program to provide sufficient wastewater treatment to accommodate the City's projected buildout population. Based on a projected buildout population of 12,195, the City Planning Commission, pursuant to CDP No. 406-01, approved the further expansion of the City's wastewater treatment facilities to 2.4 million gallons per day (MGD).

♦ Sewer Master Plan/Collection System Master Plan — (CMB General Plan Program C-36)
These plans are identified in the City of Morro Bay General Plan. The Sewer Master Plan specifies programs necessary to assure adequate sewage flow capacities within the City's sewers. The Collection System Master Plan specifies measures necessary for the proper collection of City wastewater.

IV. ADMINISTRATION

The Director of the Planning and Building Department serves as the Administrator of the Office of Zoning Administration, and is authorized to act on applications for Temporary Use Permits, Minor Use Permits and certain minor variances. The Director of Planning and Building is also referred to as the Environmental Coordinator, and Secretary to the Planning Commission. The Planning Commission is designated as the advisory agency with respect to the Subdivisions pursuant to the Subdivision Map Act. The Subdivision Committee consists of a building inspector, the director of Public Works/City Engineer, the fire chief, the director of recreation and parks, and the planning and building director. For further information, contact:

Planning and Building Department 535 Harbor Street Morro Bay, CA 93442 (805) 772-6200

→ L2.	City	of Morre	Bay	Public	Works	Department				
	Priority problems addressed (1)* Key programs/activities/etc.									
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)				
√	. •		√	7	1	 Regulatory activities pursuant to City of Morro Bay General Plan, Land Use Plan, and Zoning Ordinance (R) 				
1	1	1	V	1	1	• Implementation of Approved City Plans (NR)				

I. MISSION AND AUTHORITIES

The City of Morro Bay is dedicated to the preservation and enhancement of the quality of life, and the City strives to provide a level of municipal service and safety consistent with and responsive to the needs of the public. The City exercises its local planning and land use functions pursuant to California Planning and Zoning Law, the Subdivision Map Act, the California Coastal Act, and the California Environmental Quality Act (CEQA). Program authorities include: (1) General Plan; (2) Morro Bay Local Coastal Program/Land Use Plan; (3) Zoning Ordinance (Title 17); (4) Subdivision Ordinance (Title 16); and (5) Municipal Code, Chapter 14, Building Section.

II. JURISDICTION

The jurisdictional limits of the City of Morro Bay extend from the oil terminal at the north end of Morro Bay to Morro Bay State Park at the south. Almost the entire city of Morro Bay lies within the coastal zone with the exception of a small area in the north foothills. The LUP applies to everything except this small area. The Morro Bay watershed boundary runs through the southern portion of the City of Morro Bay. Storm drains within the residential/commercial portions of the City along the waterfront of the bay have outlets into the Bay.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance, voluntary, education/technical assistance, and/or planning)

A. Regulatory Activities/Programs

♦ Overview of Regulatory Activities — The Public Works Department follows the guidance of the City of Morro Bay's General Plan and Local Coastal Program (LCP)/Land Use Plan (LUP). An example of Public Works regulatory activities includes such specified regulatory authority as determining whether a driveway has been abandoned, and if so, require its removal. or cause an abandoned drive to be removed (Morro Bay Zoning Ordinance § 17.44.030.C). Another example is as part of approving any Conditional Use Permit, the Public Works Director or Planning Commission has the authority to require a contribution in kind or through fees for the mitigation of storm water drainage problems as identified in the storm drain master plan and in proportion to the impacts created by the development, as part of approving any Conditional Use Permit as a condition of approval for any off site improvements and or easements related to streets, sewers, waterlines, storm drainage, fire hydrants and any other onsite or offsite facility deemed reasonable necessary to protect the public health, safety or welfare (ZO § 17.44.110 E.4).

B. Resource Management Activities/Programs

The resource management programs and activities of the City Public Works Department overlap with the regulatory and planning functions described in this section, as well as with programs/activities conducted by the City's Public Works, Harbor, and Parks Departments.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

The Public Works Department implements several plans approved by the Planning Commission including the plans listed below:

- ♦ Water Management Plan -- (CMB General Plan Program LU-79, 80) This plan addresses how the City will meet its current and projected (based on maximum projected population) demand for water. The City's water demand can be met through (1) existing ground water wells, (2) water from the State Water Project (SWP), (3) water produced from a desalination plant (now idle), (4) water conservation programs, and (5) reclaimed water. Desalinated water is used to make up for shortfalls in ground water and/or SWP water during droughts and to blend with other sources as needed to meet the City Council's established drinking water quality standards.
- ♦ Wastewater Reclamation Program -- (CMB General Plan Program LU-80.1): -- This program, when implemented, would provide approximately 770 acre-feet per year of reclaimed water for agriculture and golf courses.

MB NEP Base Programs Analysis, Vol. 1

- ♦ Master Water Plan (CMB General Plan Program C-35.1) This plan describes deficiencies in the size and condition of the City's water pipelines, and proposes improvements to be completed in five 5year-phases. Recommended improvements include correcting lines that experience low pressure, and replacing lines that leak or that are too small to provide for domestic and fire flows.
- ♦ Storm Drain Master Plan This plan documents a series of construction projects necessary to convey storm runoff, and recommends measures to implement the master plan including budgeting and financing alternatives and drainage ordinances.
- ♦ Wastewater Treatment Program (General Plan Policy LU-81 / CMB LUP Policy 3.06) The City is continuing a program to provide sufficient wastewater treatment to accommodate the City's projected buildout population. Based on a projected buildout population of 12,195, the City Planning Commission, pursuant to CDP No. 406-01, approved the further expansion of the City's wastewater treatment facilities to 2.4 million gallons per day (MGD).
- ♦ Sewer Master Plan/Collection System Master Plan -- (CMB General Plan Program C-36)
 These plans are identified in the City of Morro Bay General Plan. The Sewer Master Plan specifies programs necessary to assure adequate sewage flow capacities within the City's sewers. The Collection System Master Plan specifies measures necessary for the proper collection of City wastewater.

IV. ADMINISTRATION

For further information, contact:

Public Works Department 695 Harbor Street Morro Bay, CA 93442 (805) 772-6261

→ L3.	City	of Morro	Bay	Harbor	Depar	tment
	Priority 1	problems ad	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
1	V		V	√	1	 Regulatory activities pursuant to City of Morro Bay General Plan, Land Use Plan, and Zoning Ordinance (R)
	✓	√				• Live-aboard permits program (R)
1			1	- 	√	Coordination of federal dredging activities (RM)
					√	 Management of Tidelands lease properties/City dockage facilities (NR)
	1	✓	1			Derelict vessel removal (NR)
	1					• Los Robles Dive Team (NR)
	1					Harbor Patrol Service (NR)
					✓	Waterfront Master Plan (NR)
						Tidelands Park Master Plan (NR)

MISSION AND AUTHORITIES

The Harbor Department, created in 1985, is a service-oriented agency that provides boater assistance and emergency response for the waters of Morro Bay, including water safety, education, and school and community outreach programs. The Department maintains all harbor facilities, coordinates federal dredging activities, administers Tidelands lease sites, and cooperates with other City departments to insure a high quality of life for harbor users and citizens of Morro Bay.

II. JURISDICTION

The tidelands and submerged lands within the incorporated boundaries of the City of Morro Bay have been granted by the State of California to the City of Morro Bay. The tidelands are managed by the Harbor Department.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- ◆ Overview of Regulatory Activities:— The Harbor Department follows the guidance of the City of Morro Bay's General Plan and Local Coastal Program (LCP)/Land Use Plan (LUP). Examples of policies that address polluted runoff issues in the Harbor area are found in LUP Chapter IX (Policies 7.01-7.17) which discuss fishing and recreational boating (these policies have been incorporated into the General Plan). Many of the policies focus on specific areas around the bay, however the first few policies are broader in nature as shown below. The City's Zoning Ordinance (ZO) which implements the LUP policies (Municipal Code, Title 17) also has several sections related to the control of NPS pollution. The Harbor Patrol enforces City laws, regulations, and ordinances affecting the waters of Morro Bay.
- ♦ Liveaboard Permits Program The Harbor Director issues and enforces live-aboard permits, under the City's Liveaboard Ordinance (Chapter 15.40, Vessel Habitation). The Liveaboard Ordinance is a public health and safety ordinance designed to regulate persons who live on boats anchored or moored on tidelands granted to the city.

B. Resource Management Activities/Programs

♦ General Information — The Harbor District coordinates federal dredging activities, manages tidelands lease properties and all city dockage facilities. The city is working on establishing an eelgrass mitigation bank to allow for dredging of the mooring area and to assist with future dock construction or other dredging projects.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

- ◆ Derelict Vessel Removal The Harbor Department maintains an aggressive lien sale, demolition program intended to reduce the number of derelict vessels in Morro Bay.
- ◆ Los Robles Dive Team This team does voluntary cleanup dives in Morro Bay by picking up trash and debris that is found in the bay.
- ♦ The Harbor Patrol Service The Harbor Patrol conducts informal education to boaters and marina users on issues related to waste discharge and keeping materials from entering the water. The Harbor Patrol also conducts educational programs with local elementary schools. The Harbor Department has also published a brochure on pumpout facilities, and is looking towards working with the NEP and the Friends of the Estuary to fund interpretive signs on water pollution prevention.

Waterfront Master Plan — (Chapter 3, Transportation and Harbor). Harbor Facilities section recommends the development of an interpretive program for the waterfront area of Morro Bay. Suggestions include: (1) maps or photographs with interpretive text showing the natural, ecological and working operations of the Bay (these displays might be mounted at the dead-end streets fronting the bay or at key access points); (2) scenic and historic tours of the Embarcadero area both on land and water; and (3) a maritime museum and information center.

The Harbor Department is involved in the city planning process by working together with the Planning Department on the following plans:

- ♦ Waterfront Master Plan This plan outlines ideas for future City actions and possible capitol projects between Morro Rock and Tidelands Park. The waterfront area of Morro Bay is comprised of four subareas: Morro Rock/Coleman Park, T-Piers/Fishermen Working Area, Embarcadero Visitor Area, and Tidelands Park.
- Tidelands Park Master Plan Staff of the Harbor and Recreation and Parks Departments implement all or portions of this plan which is devoted to appreciation of the natural features of Tidelands Park and addresses recreational and other uses of the Park. The Park contains a recreational boat launch ramp and commercial fishing boat slips. A lateral dock with a vessel pumpout facility was added recently; this dock improves the public boat launch and ramp area and allows additional pedestrian access to the waterfront. Additional proposals exist for supplemental boat access facilities which the Plan states will reduce peak vehicle congestion in the parking lot at launching time, diminish congestion on the bay, and provide an alternative site for water dependent marina uses. If such facilities are considered, they will be designed to take into account potential impacts to visual resources (e.g., views of Morro Rock), the natural marine biology and associated habitat, and current flow.

IV. ADMINISTRATION

The Harbor Director oversees the activities of the Harbor Department. The Director reports to the City Administrator. The Harbor Advisory Board acts in the advisory capacity to the City Council in areas relating to harbor activities. The Harbor Department administers all tidelands property granted to the City of Morro Bay. The Harbor Patrol provides boater safety and emergency response, and enforces City laws, regulations, and ordinances affecting the waters of Morro Bay.

For further information, contact:

Harbor Department
75 Embarcadero
Morro Bay, CA 93442
805) 772-6254

Harbor Advisory Board 75 Embarcadero Morro Bay, CA 93442 (805) 772-6254

3	Priority p	roblems	addressed	l(√)*		Key programs/activities/etc.
Sediment	Bacteria	Nutrie nts	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
√	V	√	1	•	√	 General Plan/Land Use Ordinance (R)
√	1	✓	1	1	✓	 LCP/Coastal Land Use Ordinance (R)
				1	✓ .	• Area Plans (R)
√					1	 Real Property Division Ordinance (R)
√		Ī			1	• Permitting (R)
					1	• Maps (R)
√	1	√	1	1	1	• CEQA Responsibilities (R)
1						 Sedimentation & Erosion Control (RM)
✓					1	 Resource Management System (RM)
√				1	V	 Agricultural Preserve Program (RM)
						• Capital Improvement Program (F)
					1	 County/Community-Based Transfe of Development Credit Programs (NR)
1				1	1	Planning Area "Programs" (Voluntary) (NR)

I. MISSION AND AUTHORITIES

The Department of Planning and Building plans the use of land in San Luis Obispo County in order to protect public health and safety, conserve natural resources, and sustain a high quality environment. The Department manages growth and development through administration and enforcement of land use policies and regulations. Program authorities include: (1) the General Plan [including the Land Use Element, other General Plan elements (e.g., Open Space, Energy,

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations

> Reduced Flow = freshwater flow reductions

> Nutrients = increased nutrient concentrations

> Habitat Loss = adverse impacts to wildlife habitat

Recreation, etc.), and the Land Use Ordinance (County Code, Title 22)]; (2) the County Local Coastal Program (LCP) which is comprised of seven documents including the Coastal Zone Land Use Ordinance (County Code, Title 23); (3) Regional Transportation Plan (1993); (4) Local Oil Spill Contingency Plan (1993); and (5) the California Environmental Quality Act (CEQA). Divisions within the Department of Planning and Building include those discussed below.

- ♦ Environmental Services Division -- The Environmental Services Division provides environmental review and resource planning services which result in the maintenance of a high quality environment consistent with CEQA and other applicable regulations. This division also includes the Energy and Natural Resources Section, which reviews all oil and gas development and mining activities in the County.
- ♦ Planning Services Division -- The Planning Services Division creates and monitors plans and strategies that guide future land use, reviews proposed development projects, and oversees community development block grants.
- ♦ <u>Building Services Division</u> -- The <u>Building Services Division</u> protects public health and safety by enforcing established construction standards and making sure that construction complies with approved plans.

II. JURISDICTION

The County is divided into 15 Planning Areas. Four Planning Areas lie wholly or partly within the Morro Bay watershed; County jurisdiction includes those areas that are not under the City of Morro Bay's jurisdiction. These four Planning Areas are described below.

- ♦ Estero Area Plan, LCP (revised 11/96) The Estero Planning Area contains the majority of the Morro Bay watershed and includes the coastal area from Point Estero on the north to Point Buchon on the south, and from the coast to as far as seven miles inland. Urban areas in the Planning Area are the City of Morro Bay and the unincorporated communities of Cayucos and Los Osos. Including the City of Morro Bay, the Planning Area covers 71.5 square miles.
- ♦ San Luis Obispo Area Plan (revised 1/97) The San Luis Obispo Planning Area encompasses the unincorporated area adjacent to the City of San Luis Obispo as well as surrounding agricultural and rural lands. It extends to the Los Padres National Forest on the north and east, Cuesta College and Camp San Luis Obispo to the west, and the Irish Hills and Arroyo Grande fringe to the south. This Planning Area includes significant portions of Chorro, San Luis Obispo, and Pismo Creek watersheds.
- ♦ San Luis Bay Coastal Area Plan (3/97) The San Luis Bay Planning Area, which encompasses the south central coastal portion of the County, contains a small portion of the southernmost part of the Morro Bay watershed (east of Pecho Valley Road and south of Los Osos Creek). This area includes most of Montana de Oro on the north, and extends south to the southern county boundary in a narrow strip along the coast.
- ♦ Salinas River Area Plan (revised 11/96) The Salinas River Planning Area, which is located north of the Estero and San Luis Obispo Planning Areas, contains a small area of the northeastern portion of the Morro Bay watershed.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- ♦ General Plan/LCP (California Government Code, §§ 65300 et. seq.) The County guides development through its General Plan and LCP. General Plan and LCP policies are carried out through planning area standards and programs in the area plans, the Land Use Ordinance (LUO) and Coastal Zone Land Use Ordinance (CZLUO) respectively and through other authorities. The County implements and enforces ordinances and regulations that contain criteria to guide development consistent with General Plan and LCP policies. Implementation activities include project application review, permitting, inspections, stop work orders, fines, etc. These activities are conducted via the following plans, policies and ordinances:
- General Plan Policies/LUO: The County General Plan is comprised of several documents, including the Land Use Element, other General Plan elements (e.g., Conservation, Open Space, Energy, Recreation, etc.), and the LUO. Together the Land Use Element and LUO are an integrated land use policy and regulatory system: the Land Use Element is a plan describing official county policy on the location of land uses and their orderly growth and development; the LUO regulates site design and development. The Land Use Element has three major sections: (1) Framework for Planning, (2) 15 separate area plans, and (3) the official maps. As discussed above, four area plans cover portions of the Morro Bay watershed. The General Plan contains both "policies" and "programs." Policies, which are specific statements of principle or of guiding actions, represent a general direction that a governmental agency sets to follow in order to meet its goals and objectives before undertaking an action project. A program is an action, activity, or strategy carried out in response to adopted policy to achieve a specific goal or objective. Policies and programs establish the "why," "how" and "when" for carrying out the "what" and "where" of goals and objectives. (California Planning Roundtable, California General Plan Glossary.)
- ◆ Area Plans The Estero, San Luis Obispo, San Luis Bay, and Salinas River Area Plans allocate land use within their respective portions of the Morro Bay watershed by land use categories. The land use categories determine the varieties of land use that may be established on a parcel of land, and define allowable densities and intensities of development. For example, San Luis Obispo Area Plan goals that address priority estuary problems include: (1) maintain/improve water quality at safe and healthy levels; (2) protect/enhance wildlife habitat areas; and (3) protect natural drainage channels and floodways in their natural condition.
- ◆ LCP Policies/CZLUO The San Luis Obispo County LCP is comprised of seven documents: the Framework for Planning, Coastal Plan Policies, the CZLUO, and the four Planning Areas of Estero, North Coast, San Luis Bay, and South County. As noted above, the Estero Planning Area covers the majority of the Morro Bay watershed. In April 1984, the California Coastal Commission certified the County's Land Use Plan (LUP). In February 1988, the Commission effectively certified the CZLUO as amended. In March 1988, the

- County assumed full permitting authority. The County's LCP contains a number of policies addressing runoff, flow, and habitat loss issues within the coastal zone.
- ♦ Maps (CZLUO § 23.01.022) The County has prepared and maintains numerous maps which are on file in the County Planning Department. They include: Official Land Use maps, Building Line maps, and Environmentally Sensitive Habitat maps (which show areas that are sensitive habitats for plants and animal life, including marine mammals).
- County-wide and Community-Based TDC Programs (LUO § 22.04.500 et. seq.) The TDC Program, adopted in the County LUO, is a land use planning tool that allows the ability to develop (called credits) to be separated from a "sending" site and moved to a "receiving" site. Thus the transfer of the credits reduces the development possible on the sending site and increases the development possible on the receiving site. One of the main purposes of the TDC Program is to encourage the protection of areas of high environmental quality, including but not limited to important geological features, wetlands and marshlands, undeveloped coastal areas, and important watersheds. Community-based TDC Programs are developed for specific communities. They may contain provisions other than those standards set forth in the LUO for the Countywide TDC Program. Community-based programs are locations and standards established through community input where properties are eligible for consideration as specific sending and receiving sites. These areas are then designated through the individual Area Plans. The purpose is to allow a community to develop a TDC program that is tailored to the individual community's goals. [See also Section D (Voluntary Incentives).]
- ◆ Real Property Division Ordinance The Real Property Division Ordinance regulates and controls the initial design and improvement of the division of land. The ordinance promotes orderly development of real property, protects purchasers and surrounding landowners and, among other requirements, assures compliance with county grading and erosion control standards, including prevention of sedimentation and damage to offsite property.
- Permitting The Department issues permits consistent with policies, ordinances etc. They cannot approve any land use for which the LUO requires a permit, unless the use is consistent with the Land Use Element. Similarly, the Department cannot approve any land use for which the CZLUO requires a permit, unless the use is consistent with the LCP. Permits issued pursuant to the General Plan and/or LCP include coastal development permits (CDPs) for development in the coastal zone, site plans, Minor Use Permits, Development Plans, emergency permits, and land use permits for grading, tree removal, and drilling. Examples of some of these permits are provided below.
 - CDPs: (Coastal Area Plans) In the coastal zone, the County of San Luis Obispo has authority to issue CDPs in its jurisdiction, pursuant to the CCC-certified LCP.
 - Grading: (CZLUO & LUO § 23.05.025). In general, a grading permit shall be obtained before beginning any grading, excavation, fill or diking or dredging activities involving wetlands and riparian areas, as well as various activities that alter natural drainage patterns.

- Tree removal: (CZLUO & LUO § 23.05.060) The purpose is to protect trees (and other coastal vegetation) from indiscriminate or unnecessary removal. Tree removal is defined as "the destruction or displacement of a tree by cutting, bulldozing, or other mechanical or chemical methods, which results in physical transportation of the tree from its site and/or death of the tree."
- Flood hazard area: (CZLUO & LUO § 23.07.064) Drainage plan approval is required where any portion of the proposed site is located within a designated Flood Hazard Area.
- Drilling: (CZLUO & LUO § 23.08.173) A permit is required to drill wells for the extraction of oil, gas, geothermal steam, or any other subterranean resource except water.
- ♦ Sedimentation and Erosion Control Plan (CZLUO § 23.05.036) The County Engineer requires submittal of a sedimentation and erosion control plan for review and approval under the following conditions:
 - a) when grading that requires a permit is proposed to be conducted or left in an unfinished state during the period from October 15 through April 15; or
 - b) for land-disturbance activities on steep slopes (>30%), on unstable areas, on soils rated as having severe erosion hazard, or within 100 feet of a water course; or
 - c) for the placing or disposal of organic or earthen materials (e.g., soil, silt, bark, slash, and sawdust) from logging, construction and other soil-disturbance activities above or below the anticipated high water line of a watercourse, where rainfall or runoff may carry such materials into waters in quantities that are harmful to fish, wildlife, or other beneficial uses.
- ◆ CEQA (Public Resources Code §§ 21000 et. seq.) Within its jurisdiction, the County is often a CEQA lead agency for conducting or approving projects. The County's responsibilities under CEQA include: (1) determining if a development proposal is a "project" subject to CEQA review; (2) conducting an Initial Study for projects requiring CEQA review; and (3) preparing, after completing the Initial Study, either a Notice of Preparation of an Environmental Impact Report (EIR) (for projects which may cause significant adverse environmental effects that cannot be reduced to insignificant levels by implementation of feasible mitigation measures) or a Negative Declaration (the lead agency's explanation of why a project will not create any significant adverse environmental impacts and, therefore, does not require preparation of an EIR).

B. Resource Management

Resource Management System (RMS) — The County General Plan has a RMS to track, monitor, and evaluate the carrying capacity of essential social and environmental resources (e.g., water supply and delivery, sewage disposal, roads, and air quality). The RMS uses three levels of severity to inform decision makers of current and potential deficiencies. If a resource has exceeded or is projected to exceed its carrying capacity, a resource capacity study is developed, and strategies are implemented to ensure that the resource is not exhausted. An Annual Resource Summary Report includes an annual determination on the

remaining capacity of each resource, and identifies actions being taken to address resource problems.

◆ Agricultural Preserve Program — (CZLUO § 23.04.024) The County executes Agricultural Preserve contracts through procedures enabled by the California Land Conservation Act of 1965. Approval of a division of land covered by an agricultural preserve contract is discretionary, and a parcel size larger than the minimum designated in the contract may be required to ensure agricultural sustainability.

C. Finance Mechanisms

♦ Capital Improvement Program — This Program, which is reviewed annually by the Board of Supervisors, prioritizes funds to carry capital projects forward.

D. Voluntary Initiatives/Incentive Programs (i.e., public and/or private efforts)

◆ Transfer of Development Credit (TDC) Program — (LUO § 22.04.500 et. seq.) This voluntary, incentive-based, and market-driven program allows willing sellers and buyers to transfer development credits from one parcel of land to another. [See also Section F (Planning)]

Department of Planning and Building resource protection staff organize special projects; other public education and technical assistance are provided by community liaison planners and public information/research staff. In addition, the Department of Planning and Building supports and/or partially staffs several county and community commissions and boards. A few of these commissions/boards are described below:

- <u>County Planning Commission</u> a five member citizen commission appointed by the Board
 of Supervisors to act as the decision-making body for subdivisions and major development
 applications and to make recommendations to the Board on planning matters;
- <u>County Subdivision Review Board</u> the agency authorized to make decisions on parcel maps (minor land divisions), lot line adjustments, and related subdivision planning matters. It consists of appointed staff members from the Planning and Building, Engineering, County Fire and Health Departments and Air Pollution Control District;
- <u>County Airport Land Use Commission</u> an advisory agency created to discuss, study and make recommendations related to problems associated with land adjacent to County airports;
- <u>Agricultural Preserve Review Committee</u> an advisory committee established by the Board of Supervisors to assist implementation of the agricultural preserve program;
- Transfer of Development Rights (TDR) Review Committee eight members appointed by the Board of Supervisors who are authorized to make decisions on sending site applications and to make preliminary determinations regarding potential receiving sites.

Pursuant to State Planning and Zoning Law, Subdivision Map Act, Coastal Act of 1976, and CEQA, the County develops plans by soliciting staff recommendations, presenting the recommendations to the public for comment, responding to comments and presenting revised

plans to the County Board of Supervisors for approval. Area Plans are reviewed and updated periodically.

◆ Planning Area "Programs" — The Land Use Element recommends that communities, the County, or other specified public agencies initiate actions to correct local problems or conditions. These non-mandatory actions are also intended to support community objectives in implementing the General Plan. Because many recommended programs involve public expenditures, their initiation will depend upon the availability of funding and broad community support. The following are some of the public service programs for the various planning areas:

Estero Area Plan

- Areawide Project Referral Program The County should establish a project referral area around the city of Morro Bay to include the Morro and Chorro Hydrologic Basin Boundaries. All projects which require more than a ministerial entitlement from the county or will result in the use of more than 1 acre foot of water per year are to be referred to the city of Morro Bay for review.
- Additional Water Sources (Agriculture): The county should investigate possible sources of additional water to expand irrigated croplands as well as on hillsides that are appropriate for orchard or vineyards.
- Public Facility The county should work with the operator of the Los Osos landfill to identify practices or on-site characteristics which contribute to significant sedimentation increases which impact the surrounding estuary. A management plant for correcting identified problems shall be established.
- Wetlands Protection The county should explore means of encouraging acquisition or open space agreements on marshlands and creeksides to protect freshwater and bayside properties.

San Luis Obispo Area Plan

- Basin Information A study should be completed that will provide information to ensure that planned intensities of groundwater-dependent land uses will not overdraft the San Luis Obispo groundwater basin or worsen any existing overdraft conditions.
- Water Conservation Retrofit The County should adopt an ordinance and program to
 encourage developers to retrofit existing structures in the Planning Area with waterconserving plumbing fixtures.
- Flood Control The County, City of San Luis Obispo, and Zone 9 of the Flood Control and Water Conservation District should update and implement the Zone 9 Flood Control Master Plan.
- Runoff Monitoring The County Engineering Department should work with the City of San Luis Obispo to monitor the effects of land development on downstream runoff within the San Luis Obispo Creek floodplain.

San Luis Bay Area Plan

- Channel Maintenance Programs The County Flood Control District should undertake channel maintenance programs for San Luis Obispo, See Canyon, Pismo, Arroyo Grande and Los Berros Creeks to prevent erosion and preserve the Creeks in their natural state.
 - Indian Knob Open Space Preservation The county should acquire a scenic or open easement over the area at the time of new development proposals.

Salinas River Area Plan

- Biological Inventory The Planning/Environmental Divisions should map and prepare a biological inventory of important native habitats and critical wildlife migration corridors.
- Septage Disposa: The County should secure long-term locations for safe disposal of septage.

IV. ADMINISTRATION

The Board of Supervisors serves as the legislative body of San Luis Obispo County for planning and provision of services related to public needs and the requirements of state and federal laws, establishes overall County priorities, and sets policy. Each supervisor is elected by district for a four-year term. District 2 encompasses all of the Morro Bay watershed. For further information, contact:

County of San Luis Obispo
Department of Planning and Building
County Government Center
San Luis Obispo, CA 93408
(805) 781-5603

→ L5.	L5. County of San Luis Obispo Health Agency								
	Priority	problems	addressed	√ (*		Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)			
	1	1	1	1		Small Water Program (R)			
			1	·		Hazardous Waste/Hazardous Materials Programs (R)			
			√			♦ Risk Management/Prevention Plan			
	√	1	√			Waste Management Program (R)			
	1	1	√			♦ Solid Waste Program/Solid Waste Management Plan			
····	1	1	1			♦ Liquid Waste Program			
	1	1	1			♦ Land Use Program			
_	. 1	1	1			♦ Cross-Connection Program			

I. MISSION AND AUTHORITIES

The Public Health Department works to fulfill the community's interest in assuring conditions that allow the optimum achievement of physical and mental health for all residents in San Luis Obispo County. The Environmental Health Division regulates and monitors hazardous materials in the County, and assures the safety of food, water, housing, recreational facilities, and solid and liquid waste disposal operations. Agency authorities include: California Hazardous Waste Control Law; the Community Right to Know Law (Health & Safety Code Chapter 6.95), Proposition 65, and Underground Tank Regulations (see RWQCB for more detailed code sections).

II. JURISDICTION

Countywide.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

• Small Water Program — The Health Agency's Environmental Health Division, in cooperation with the State Department of Health Service's Office of Drinking Water, is

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

⁼ increased heavy > Heavy Metals + metal/toxins concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

responsible for the regulation, monitoring, and permitting of public water systems in San Luis Obispo County, including monitoring how often water systems' operators conduct tests to determine that safe drinking water standards are being met. Out of 155 water systems existing county-wide, only two or three operate in the Morro Bay Watershed. The water quality is monitored monthly for bacteria and nutrient levels and every three years for physical and chemical characteristics which would include heavy metals and other toxins.

♦ Hazardous Waste/Materials Programs

- Hazardous Waste Management Standards & Regulations The Environmental Health Division is authorized by California Hazardous Waste Control Law (CHWCL) and a Memorandum of Understanding (MOU) with the State Department of Toxic Substances Control to enforce hazardous waste management standards and regulations promulgated by the State. The regulations have been established to ensure that generators of hazardous waste employ technology and management practices for the safe storage, handling, treatment, recycling, and destruction of hazardous wastes prior to disposal. As the Countywide (except for the City of San Luis Obispo) agency for administering the Community Right to Know Law, the Division also requires handlers of hazardous waste to provide information to emergency services agencies in order to prevent environmental damage and injury to emergency personnel from a release of hazardous materials. Proposition 65, passed by California voters in 1986, requires that the County Health Officer notify the news media and the public of any potential exposure to a hazardous substance discharged into the environment.
- Emergency Response The Environmental Health Division provides 24-hour emergency response to situations involving hazardous materials releases, threatened releases, spills and transportation accidents. Division staff provide technical support to fire and law enforcement incident commanders, recommend actions to protect public health, and monitor site cleanup after an incident is stabilized.
- Underground Storage Tank The Environmental Health Division regulates the storage of hazardous materials and hazardous wastes in underground tanks Countywide (except for the City of San Luis Obispo). The purpose of this program is to prevent soil and groundwater contamination from leaking underground tanks. The program enforces State laws and regulations to ensure that: (1) new tanks meet new construction monitoring standards; (2) existing tanks are properly maintained, inspected and monitored for leaks; (3) used tanks are properly abandoned; and (4) any contamination is remediated.

Waste Management Programs

Solid Waste Program/Solid Waste Management Plan — The operation of the Solid Waste Program encompasses routine inspection of sanitary landfills and waste collection vehicles. Environmental Health Division staff also serve as consultants to the Solid Waste Management Commission, which is charged with advising the Board of Supervisors on the maintenance and implementation of the County Solid Waste Management Plan. Complaint investigations are performed relating to illegal dumping,

litter control and improper disposal of animal waste (e.g., large animal carcasses and fecal matter from livestock).

- Liquid Waste Management Program Activities of this program include routine
 inspection of sewage sludge handling and disposal practices, monitoring, and the
 inspection and permitting of septic tank pumper trucks and septic disposal sites.
 Community sewage disposal by land application is becoming increasingly difficult as all
 of the County sewage disposal sites have closed.
- Land Use Program This program provides for inspection and review of land development projects, subdivisions, parcel maps, zone changes and various types of use permits to insure the health and safety of future residents. The review, which is conducted by Health Agency staff in conjunction with Planning and Building Department staff, concentrates on adequacy of water supply and sewage disposal.
- Cross-Connection Control Program The purpose of the Cross-Connection Control Program is to ensure that no "connections" or potentials for connection exist to allow degraded water (i.e., water that is hazardous to human health) to enter a potable water supply. The program requires the installation of proper backflow prevention devices to eliminate situations where contaminated water could for backwards into a water system.

B. Resource Management Activities/Programs

This agency does not implement any resource management activities or programs.

C. Finance Mechanisms

The Agency does not fund any non-agency projects in the Morro Bay watershed.

D. Other Non-Regulatory Programs

- Risk Management and Prevention Plan [see Section F (Planning) below]
- Risk Management and Prevention Plan The Environmental Health Division has developed and implemented a Risk Management and Prevention Plan (RMPP) Program for facilities that handle and store "Acutely Hazardous Materials" (AHMs). This program is designed to encourage handlers of AHMs to conduct comprehensive evaluations of their facilities (i.e. containment, handling practices) to minimize any potential releases of AHMs, and to protect public health and safety and the environment from releases that might occur.

IV. ADMINISTRATION

For further information, contact:

County of San Luis Obispo Public Health Department, Environmental Health Division 2191 Johnson Avenue San Luis Obispo, CA 93401 (805) 781-5544

→ L6.	Coun	ty of San	Luis Obi	spo C	County	Engineering Department
	Priority	Key programs/activities/etc.				
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
✓						• Flood Hazard Area permitting (R)
1						Drainage Plan Review & Approval (RM)
1			√.			Jurisdictional Authority (RM)
1		1	1	1	√	 Flood Control District & Water Conservation District Monitoring Program (streams/groundwater/etc.) (?)
	1					Morro Bay National Estuary Program (NR)
	1					Special Districts — County Service Area 9 (NR)

MISSION AND AUTHORITIES

The County Engineering Department's goals related to estuarine protection and water quality issues in the Morro Bay watershed include: (1) protection of the public health by maintaining public water and sewer systems in several communities; (2) maintaining roads, bridges, and bikeways; (3) assisting the public in the processing of survey maps, plans, and permits for new development; (4) maintaining facilities of the Flood Control District; (5) coordinating programs which encourage recycling in order to achieve State and County goals for waste stream reduction; (6) assisting County residents in resolving waste hauling concerns; and (7) providing necessary services to maintain the Los Osos Landfill in compliance with federal, State, and local regulations. Program authorities include: General Plan and Framework for Planning; Area Plans; Land Use Ordinance; Special Districts (County Service Areas); San Luis Obispo County Flood Control and Water Conservation District Act; County Code 11-351.1100 & 11-352.1000 (Standard Improvement Specifications and Drawings); and the Street Highway Code.

II. JURISDICTION

County of San Luis Obispo.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins

> Bacteria = increased bacterial concentrations > concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance and non-regulatory)

A. Regulatory Activities/Programs

♦ Flood Hazard Area Permitting — (LUO) The County Engineer houses the Federal Emergency Management Agency's Flood Insurance Study for San Luis Obispo County which identifies areas of special flood hazard. Pursuant to the LUO, anyone seeking a Flood Hazard Area Permit for an area where water surface elevation data has not been provided by the Federal Insurance Administration, must demonstrate to the satisfaction of the County Engineer that the structure will not be located within the floodway or by subject to inundation by the 100-year storm. The LUO also authorizes the County Engineer to approve temporary uses that the County Planning Department may authorize, and requires that the County Engineer be notified if an emergency work must be undertaken to preserve life or property.

B. Resource Management Activities/Programs

- ◆ Drainage Plan Review & Approval (CZLUO § 23.05.046) All drainage plans are to be submitted to the County Engineer for review, and are subject to the approval of the County Engineer, prior to the issuance of a land use or construction permit. No land use or construction permit (as applicable) shall be issued for a project where a drainage plan is required, unless the drainage plan is first approved. Performance standards for the control of drainage and drainage facilities ensure that projects are designed to minimize harmful effects of storm water runoff and resulting inundation and erosion on proposed projects, and to protect neighboring and downstream properties from drainage problems resulting from new development.
- ♦ Jurisdictional Authority The Engineering Department is responsible for all improvements constructed in rights-of-way (rights of way may be used for roads, road drainage, or utilities). The Engineering Department also reviews improvements constructed by other agencies or individuals through an encroachment permit process.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

- ♦ Morro Bay National Estuary Program (MBNEP) The Engineering Department currently provides a liaison between the Department and the MBNEP to attend meetings, provide input into the program, facilitate the transfer of information, and to keep apprised of programs which may affect Departmental activities.
- ♦ Special Districts/County Service Area (CSA) 9 Special Districts within County Planning Areas are designed in many instances to provide efficient individual services for suburban and rural areas. CSA 9, which serves the Los Osos Valley area, was formed in 1973 to consolidate a number of single purpose districts. Authorized services related to estuarine

MB NEP Base Programs Analysis, Vol. 1

protection include local park maintenance, recreation/park facilities and services, tree maintenance within public right-of-way streets, street sweeping, storm drains and drainage, sewage disposal and treatment, water, irrigation, and solid waste disposal. Services are provided through "zones of benefit" which request specific types of services presently including water, drainage maintenance, septic tank maintenance, and park maintenance.

County Engineering Department has taken responsibility for the implementation of a sewer system in Los Osos which will significantly reduce nitrate contamination of the groundwater affecting the estuary required by the RWQCB due to water quality problems. County Service Area 9 has funded studies of both drainage and groundwater which could contribute ultimately to the reduction of sediment and preservation of groundwater quality and habitat.

IV. ADMINISTRATION

For further information, contact:

County of San Luis Obispo County Engineering Department County Government Center, Room 207 San Luis Obispo, CA 93408 (805) 781-5252

→ L7.	Cou	nty of Sai	n Luis Ol	oispo	Depart	ment of Agriculture
	Priority	problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
			1			• Statewide Pesticide Program (R)
			1			• Restricted Materials Permits (R)
			1			• Registration of Pesticide Users (R)
						Pesticide Management Zones (R)
-			✓			Environmental Monitoring (RM)
			✓			Programs on Weed Control, Biological Pest Control, & Vertebrate Pest Control (RM)
		· · · · · · · · · · · · · · · · · · ·	1			Hazardous Materials Program (NR)
			√			Agricultural Data Collection (NR)

I. MISSION AND AUTHORITIES

The County Department of Agriculture is responsible for promoting and protecting agriculture, environmental quality and the health and welfare of County citizens as well as for insuring equity in the marketplace. The goal of the Office of the County Agricultural Commissioner (CAC) in the area of water resources is to prevent adverse impacts from pesticides on standing or running water, groundwater, or fish and wildlife. Also addressed are sedimentation and nutrient issues associated with agricultural practices. Department authorities include: (1) General Plan and Framework for Planning, Agricultural and Open Space Element; (2) Land Use Ordinance; (3) Coastal Zone Land Use Ordinance; (4) California Food and Agricultural Code; (5) California Code of Regulations (particularly §§ 6404-6442 & 6800-6806); and (6) the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins

[➤] Bacteria = increased bacterial concentrations . ➤ concentrations

Dacteria – increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

II. JURISDICTION

County of San Luis Obispo

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- ♦ Statewide Pesticide Program (CMB General Plan & LCP) The CAC is responsible for local enforcement of this program under the direction and supervision of the Department of Pesticide Regulation (DPR). As part of the pesticide permit process, the CAC's office identifies sites where particular pesticides will be applied, collects pesticide use reports from growers, and compiles annual reports for the County. The CAC's review of permits and permit renewals considers the potential for pollution of groundwater and surface waters due to pesticide use. For example, applications for endusulfan use must document that runoff from a treated area will not move offsite into surface waters or groundwater recharge areas. Buffer zones around sites near water bodies may be required for certain chemicals (i.e., "Avid"). The permits also require backflow prevention measures if pesticides are distributed through irrigation systems.
- Restricted Material Permits (Food and Agricultural Code §§ 14001-14012) The CAC issues these permits to private and commercial applicators for possession and use of certain restricted pesticides; conditions specify how restricted materials are applied.
- ♦ Registration of Pesticide Users The CAC registers pest control businesses, pilots, and pesticide advisors who are licensed by DPR and provides them with information and training in the safe use of pesticides.
- ♦ Pesticide Management Zones (PMZ) (Groundwater Protection Act CCR §§ 6404-6442 & 6800-6806) The CAC can restrict the use of certain pesticides within state-designated PMZs. A PMZ is an area of approximately one square mile which is particularly sensitive to groundwater pollution. Regular sampling of wells for pesticides has not yet indicated a need to designate any PMZs within San Luis Obispo County.

B. Resource Management Activities/Programs

♦ Environmental Monitoring — The CAC's office (1) conducts routine monitoring of pesticide application activities, application equipment, and storage facilities to determine compliance with State requirements for public and environmental protection; (2) cooperates with DPR in monitoring of sediment and drainage water when complaints are received which potentially involve pesticides; (3) investigates fish and wildlife kills in cooperation with DPR or the State Department of Fish and Game to determine if they are related to pesticide use.

Other Resource Management Programs

- Weed Control Program controls weeds on county and state roads.
- Biological Pest Control Program coordinates research and educational resources regarding biological pest control; distributes biological agents; reduces use of pesticides.
- Vertebrate Pest Control Program educates and assists agriculturists and homeowners; protects endangered species; protects public health.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Voluntary Initiatives/Incentive Programs (i.e., public and/or private efforts)

- ♦ The Department does not conduct any education programs as this is accomplished by the Cooperative Extension Service. However, CAC staff serve on a number of committees, boards, or interagency functions related to watershed planning including the following:
 - Agricultural Liaison Advisory Board -- advises Board of Supervisors on land use matters;
 - Morro Bay Watershed Planning Committee affecting agricultural operations;
 - The California Agricultural Commissioners and Sealers Association Natural Resources Protection Committee addressing the Nonpoint Source Pollution Prevention Programs;
 - San Luis Obispo County Agricultural and Open Space Element, and Grading Ordinances Planning Committees.
- ♦ Hazardous Materials Program This Department program inventories and assures safe and legal disposal of agricultural chemicals pursuant to an overall Hazardous Materials Response Plan.
- ♦ Agricultural Data Collection Program This program includes annual crop reports for the County, indicating total acreage, production and value for each crop; data for livestock producers and dryland farmers is included. Department staff also assist in related land use planning and emergency response activities.

IV. ADMINISTRATION

The County Department of Agriculture is under the control the County Agricultural Commission. The Commissioner is appointed by the County Board of Supervisors for a four-year term. The Commissioner may appoint deputy commissioners, and county inspectors (agricultural inspectors or biologists). For further information, contact:

County of San Luis Obispo Department of Agriculture 2156 Sierra Way, Suite "A" San Luis Obispo, CA 93401-4556 (805) 781-5910

****They do not have any programs related to sedimentation (erosion control), grazing practices, irrigation/water use or any educational programs - these programs are all coming from Coop.Ext. Service.

County of San Luis Obispo → Department of General Services — Parks Division Priority problems addressed (✓)* Key programs/activities/etc. (relating to the priority Reduced Habitat Heavy Nutrients Sediment Bacteria Metals + Flow Loss problems) • Elfin Forest Resource Management Plan (approved 8/97) (RM) Parks and Recreation Master Plan (NR) • Natural Areas Plan (1992) (NR)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITIES

Department authorities include: General Plan and Framework for Planning (Inland), Area Plans, Land Use Ordinance, and Coastal Zone Land Use Ordinance.

II. JURISDICTION

County of San Luis Obispo. Specific parks and recreation facilities currently under County management within the Morro Bay Watershed include: several coastal accessways in Los Osos, Elfin Forest Natural Area, Morro Bay Golf Course, and the South Bay Community Park.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

Elfin Forest Resource Management Plan — ("Adopt-A-Park" agreement) This plan, which was approved by the Parks and Recreation Commission in August 1997, is an internal management tool to provide options for the San Luis Obispo County Parks staff regarding a specific site (The Elfin Forest). For instance, a recommended implementing policy in the plan states "protect[ing] the Elfin Forest resources in essentially a natural state to safeguard the water quality of the bay". The plan also recommends the coordination and

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

cooperation of such organizations as SLO County, California Department of Parks and Recreation, the California Conservation Corps, California Men's Colony and the Small Wilderness Area Preservation (SWAP). Resource protection activities in which Park staff would participate in per the plan (these are suggested activities) include coordination of all activities within the Elfin Forest, serve as a central information clearinghouse, to keep records of all use and activities within the Elfin Forest, grow plants for vegetation projects in County nursery, and construct boardwalks.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

- ◆ Parks and Recreation Master Plan (1988) (California Government Code § 65300 et. seq.) This document, which is to be incorporated into the Parks and Recreation Element of the General Plan, contains detailed data, goals and policies for general park development.
- ♦ Natural Areas Plan (1992) This Plan (which is being updated in the Agricultural and Open Space Element) provides guidelines for developing site-specific management plans to maintain the delicate and sensitive biosystems at County-operated Natural Area Preserves, as well as identifies other areas prime for preservation. The County Parks and Recreation Commission must approve the management plans prior to their implementation. Examples of management plans include those listed below.
 - Upper El Chorro Regional Park Natural Area Approximately 300 acres of this area, which is located north of Cuesta College, is owned by the County. Management objectives include: habitat protection and riparian restoration; trail development in the National Forest on West Cuesta Ridge; implementation of an interpretive program coordinated with County schools; grazing management where appropriate to control and protect grasslands and riparian areas; reforestation of riparian zone; and reintroduction of native species.
 - Elfin Forest Natural Area This area, located in the southernmost area of the Morro Bay Estuary, is owned by the County (38.69 acres), State Department of Parks and Recreation (51 acres) and State Lands Commission (6 acres). Management objectives include habitat protection, passive recreation, and preservation of archaeological sites. (See Resource Management)
- County Trails Plan (1991) (to be updated in the Draft Parks and Recreation Element) The focus of this plan is on multiple use trails with each proposed trail route evaluated with respect to opportunities for hiking, equestrians, bicycles, and handicapped access.
- ♦ Park and Recreational Element DRAFT The Parks and Recreation Element has proposed the development of several new parks such as Baywood Elementary

MB NEP Base Programs Analysis, Vol. 1

Neighborhood Park, Los Osos Community Park and Sports Complex (soccer and baseball fields), Skyline Drive community Park and High-Tide Aquatic Community Park-Cuesta Inlet. A Linear Park proposal is the El Morro Linear Park which would run for 0.6 miles from Baywood Elementary School to Los Osos Jr. Highschool.

IV. ADMINISTRATION

For further information, contact:

County of San Luis Obispo
Department of General Services — Parks Division
1035 Palm St., Room 460
San Luis Obispo, CA 93408
(805) 781-5200

L9. Co	L9. Coastal San Luis Resource Conservation District (RCD)							
	Priorit	y problems :	addressed (√)*		Key programs/activities/etc.		
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)		
1					1	Morro Bay Watershed Enhancement Plan (RM)		
√					V	Coordinated Resource Management and Planning (CRMP) Process (RM)		
✓					1	Conservation Plan Development (NR)		
1					1	Workshops/Demonstration Projects (NR)		

I. MISSION AND AUTHORITIES

California's 113 Resource Conservation Districts (RCDs) are State chartered, local public agencies charged, under Division 9 of the Public Resources Code, with developing land, soil and water conservation programs in their local areas. Districts are organized as a subunit of State government, but are created by the County Boards of Supervisors. RCDs act as an independent local liaison between local landowners and the federal government.

The Coastal San Luis RCD assists land users and local government officials in achieving resource management objectives including: (1) prevention and control of soil erosion; (2) control of runoff; (3) development, distribution and conservation of water and water quality; and (4) improvement of land productivity. The Coastal San Luis RCD provides land owners and the general public with technical assistance, education programs, and development of resource management/conservation plans. As local public agencies, the RCDs are able to receive and administer grant funds from State and federal agencies and often act as the lead agency working with watershed organizations and groups to develop watershed plans, provide CEQA documentation, and implement watershed projects. The RCD receives project support and technical assistance from the federal Natural Resources Conservation Service (NRCS) (formerly the Soil Conservation Service) and State Department of Conservation.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

metal/toxins > Heavy Metals + = increased heavy concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

II. JURISDICTION

The district covers 465,000 acres in coastal San Luis Obispo County, including the Morro Bay watershed. The district is abundant with agricultural and natural resources: cropland, forests, rangeland, streams, watersheds, natural habitats, lakes, estuaries, and the coastline.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

- Morro Bay Watershed Enhancement Plan (MBWEP) (Public Resources Code §§ 31000 et. seq.) In 1987, the Coastal San Luis RCD, in partnership with the State Coastal Conservancy (SCC) and NRCS, funded and developed the MBWEP. The MBWEP evaluated alternatives to reduce sedimentation in Morro Bay, and recommended a three-phased approach to implementation. The phases are: (1) construct projects to demonstrate best management practices (BMPs) on properties in the watershed, (2) implement a floodplain restoration project on the Chorro Creek drainage (Chorro Flats), and (3) implement a complementary floodplain restoration project on the Los Osos Creek drainage. The SCC provided a grant of \$410,000 to the RCD to implement the first phase of the MBWEP which resulted in 20 watershed BMP demonstration projects. Projects include:
 - 1. Chorro Flats Acquisition and Enhancement Project (Public Resources Code §§ 31000 et. seq. / P.R.C.-Division 9) This Coastal San Luis RCD-led project is designed to convert a 129-acre agricultural field to natural floodplain (retaining about 40 acres in agricultural production), restore riparian habitat, and provide a sediment deposition area above Morro Bay. The RCD acquired the Chorro Flats property from a private landowner in 1990 with help from a \$1,400,000 grant from the SCC. The SCC has also provided \$200,000 for final planning and a \$500,000 grant for project implementation.
 - 2. Los Osos Creek Conservation Easement Acquisition and Enhancement Project (Public Resources Code §§ 31000 et. seq. / P.R.C.-Division 9) The Coastal San Luis RCD, SCC and NRCS purchased a wetlands conservation easement over approximately 111 acres of former agricultural property at the confluence of Los Osos, Warden and Turri Road Creeks, and restored wetland habitat in the wetland easement area and to serve as a passive sediment trap.
- Coordinated Resource Management and Planning (CRMP) Process The CRMP process is a form of community-based resource planning that attempts to bring together local RCDs and interested parties to identify resource problems, organize information and develop recommended programs and plans to better manage their resources. This process

has not been implemented in the Morro Bay Watershed to date, but could be effective in the future to help achieve BMPs in the watershed.

C. Finance Mechanisms

♦ General Information — The Coastal San Luis RCD has many financial responsibilities throughout the region. Among its duties, the RCD (1) administers federal funds for the purpose of developing the Morro Bay State Estuary Management Plan; (2) administers grants for cost-sharing of BMPs and has assisted in the acquisition of wetland easements (e.g., on the Martines Property in the Morro Bay watershed); (3) funds both an administrative coordinator for the Morro Bay Watershed Council and a project leader for NRCS; and (4) has co-sponsored annual field tours of landowner BMP demonstration projects on the MBWEP.

D. Other Non-Regulatory Programs

- ♦ Conservation Plan Development The RCD works in cooperation with NRCS technical staff to help land managers develop Conservation Plans. These plans are designed to permit the highest and best agricultural use of land without degrading the soil and water resources and are taking place through the identification of "on-the-ground" projects that would demonstrate BMPs, encouraging of land owners to develop Conservation Plans, and funding for implementation of these plans.
- ♦ Workshops/Demonstration Projects The RCD sponsors workshops and demonstration projects to ensure greater use of agricultural BMPs.

IV. ADMINISTRATION

The Directors of the Coastal San Luis RCD are elected by district voters or appointed by the San Luis Obispo County Board of Supervisors. The Board of Directors can make legal agreements with county, State, and federal governments for work in the district. Associate Directors may be appointed by the RCD to assist in special areas of interest. Consultants and other individuals with special expertise may be called upon to achieve stated goals.

The California Association of Resource Conservation Districts (CARCD) maintains the California Resource Conservation Fund and promotes the cooperation of RCDs with federal, State, county and municipal officials. State and district representatives are also associated with the federal government through the National Association of Conservation Districts (NACD).

For further information, contact:

Coastal San Luis Resource Conservation District 545 Main Street, Suite B-1 Morro Bay, CA 93442 (805) 772-4391

See also CARCD home page @ http://ceres.ca.gov/carcd See also NACD home page @ http://www.nacdnet.org

Secondary Agencies:

► L10. City of Morro Bay Recreation and Parks Department							
Priority problems addressed (✓) *						Key programs/activities/etc.	
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)	
						Recreation and Facility Plan	
1					1	Access and Recreation Element	

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITIES

The City of Morro Bay Recreation and Parks Department manages the City's park lands and recreational facilities and provides recreational programs and services to the Estero Bay Community.

II. JURISDICTION

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

Staff of the Recreation and Parks administer and implement the Tidelands Park Master Plan as well as the Parks and Recreation Facility Plan and Access and Recreation Element. These plans discuss the current and future needs of the community.

C. Finance Mechanisms

This agency does not implement any finance mechanisms.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Heavy Metals + = increased heavy metal/toxin concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

D. Other Non-Regulatory Programs

The Access and Recreation Element as well as the Facility Plan are slated for updates within the next two years.

IV. ADMINISTRATION

The Morro Bay City Council appoints members to serve on the Recreation and Parks Commission. The Commission approves plans and makes decisions based upon Department staff recommendations. The Department receives funding through city general funds, grants and assessment district revenues.

For further information, contact:

Department of Parks and Recreation 1001 Kennedy Way Morro Bay, CA 93442 (805) 772-6282

L11. Air Pollution Control District (APCD) of San Luis Obispo County							
	Priori	ty problem	Key programs/activities/etc.				
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)	
						Permitting ®	
						Clean Air Planning (RM)	
					1	Motor Vehicle Reduction Funding (FM)	

T. MISSION AND AUTHORITIES/II. JURISDICTION

The APCD is the regional agency responsible for the preservation and maintenance of healthful air quality throughout San Luis Obispo County. Its mission is to realize and preserve clean air, to promote community and individual responsibility for air quality through education, and to provide efficient and cost-effective service. The Air Pollution Control Board is the decisionmaking body for the APCD. Board membership includes the five County Supervisors and one city council member from each of the seven incorporated cities in the county. The Board adopts rules, sets policies, and provides direction on important air quality issues that affect the County. APCD program authorities include the California Health & Safety Code and Federal Clean Air Act.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory mechanisms)

Regulatory Activity/Programs

Permitting -- The APCD issues permits pursuant to its authority to achieve air quality standards set by the U.S. EPA and the California Air Resources Board. For example, an Authority to Construct Permit is required for construction of new facilities and installation or modification of equipment at existing facilities. This permit ensures that the equipment is designed, constructed, and operated to meet local, State and federal requirements. In addition, a Permit to Operate allows ongoing operations in accordance with all permit conditions and local, State, and federal requirements.

Resource Management Activity/Programs

Clean Air Plan -- The Clean Air Plan (CAP) prepared by the APCD is a comprehensive planning document that examines: (1) current and historical trends in air quality; (2) sources of emissions that contribute to air quality standard violations; (3) projections of

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

future air quality based on expected population and economic growth; and (4) control strategies to achieve and maintain clean air. The CAP, which is updated every three years, provides guidance to the APCD as to how to control emissions from all sources to assure that State and Federal ambient air quality standards are achieved and maintained. A schedule for implementing recommended strategies is also provided.

C. Finance Mechanisms

♦ Motor Vehicle Reduction Funding -- The APCD administers several financial and educational programs. For example, the APCD's Motor Vehicle Reduction Funding program provides funding for local agencies to reduce motor vehicle air emissions. In 1997, the APCD awarded \$19,000 to the Santa Ysabel Street Traffic Calming Association in Los Osos for its traffic calming measures. APCD staff are also available to give presentations to schools and community organizations. •

D. Other Non-Regulatory Programs

This agency does not implement other non-regulatory programs.

For further information, contact:

County of San Luis Obispo Air Pollution Control District 3433 Roberto Court
San Luis Obispo, CA 93401
(805) 781-5912 or 781-4247
http://www.sloapcd.dst.ca.us

L12. Sa	L12. San Luis Obispo County Council of Governments (SLOCOG)							
	Priority	problems	Key programs/activities/etc.					
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)		
			1		√	• Regional Surface Transportation Program (F)		
			J		1	Transportation Enhancement Activity (F)		

I. MISSION AND AUTHORITY / II. JURISDICTION

SLOCOG serves as a forum for planning and discussion of area wide issues, preparing regional plans and programs, serving as a regional agency for federal and state programs, and addressing other areawide issues as mutually desired. SLOCOG is the designated Regional Transportation Planning Agency (which is responsible for state planning and transit allocations) and the designated Metropolitan Planning Organization (which is responsible for federal planning and programming of transportation funds).

II. **FUNCTIONS**

Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. ' Resource Management

This agency does not implement any resource management activities or programs.

C. Finance Mechanisms

SLOCOG awards funds throughout the region. In the last five years, SLOCOG has awarded funds to the following projects within the Morro Bay watershed: the Los Osos Elfin Forest Gateway Interpretive Site, and the Pavement Management System Program, Inventory, Assessment & Computer. SLOCOG receives its funding from local, State, and federal funds and grants. Funding sources include: local transportation funds, local gas taxes, developer and

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy concentrations

> Habitat Loss = adverse impacts to wildlife habitat

MB NEP Base Programs Analysis, Vol. 1

vehicle registration fees, State Environmental Enhancement & Mitigation grants, and federal grants. Examples of federal grants include:

- Regional Surface Transportation Program (RSTP) Types of projects eligible for funds include such activities as construction, reconstruction, rehabilitation, resurfacing, restoration and operational improvements for highways and bridges, and participation in wetlands mitigation efforts.
- ◆ Transportation Enhancement Activity (TEA) Program -- Projects must have a direct relationship to the intermodal transportation system by function, proximity or impact. Also, projects must be over and above the required project environmental mitigation and fall within several (ten) categories of which include acquisition of scenic easements and scenic or historic sites, landscaping and other scenic beautification, and mitigation of water pollution due to highway runoff.

D. Other Non-Regulatory Programs

This agency does not implement any other non-regulatory activities or programs.

III. ADMINISTRATION

The governing board consists of 12 delegates: five members of the County Board of Supervisors, and one representative from each of the seven cities in the region, including the City of Morro Bay.

For further information, contact:

San Luis Obispo Area Coordinating Council Regional Transportation Planning Agency County Government Center San Luis Obispo, CA 93408 (805) 781-5714

2.2 STATE AGENCIES

Primary Agencies Involved In Protection Of The Morro Bay Estuary

- S1. California Coastal Commission (CCC), Resources Agency -- Page 57
- S2. Department of Fish and Game (DFG), Resources Agency -- Page 63
- S3. Department of Fish and Game, Office of Oil Spill Prevention and Response (OSPR), Resources Agency -- Page 69
- S4. Department of Health Services (DHS), Health & Welfare Agency -- Page 75
- S5. Department of Pesticide Regulation (DPR), Cal/EPA -- Page 80
- S6. Regional Water Quality Control Board (RWQCB), Cal/EPA -- Page 85
- S7. State Coastal Conservancy (SCC), Resources Agency -- Page 98
- S8. State Lands Commission (SLC) -- Page 103
- S9. State Water Resources Control Board (SWRCB), Cal/EPA -- Page 106

Secondary Agencies

- S10. California Conservation Corps, Resources Agency -- Page 116
- S11. California Integrated Waste Management Board (CIWMB), Cal/EPA -- Page 118
- S12. California National Guard—Camp San Luis Obispo, Military Department -- Page 121
- S13. Department of Boating and Waterways (DBW), Resources Agency -- Page 124
- S14. Department of Conservation (DOC), Resources Agency -- Page 127
- S15. Department of Forestry and Fire Prevention (CDF), Resources Agency -- Page 130
- S16. Department of Parks and Recreation (DP&R), Resources Agency -- Page 133
- S17. Department of Toxic Substances Control, Cal/EPA -- Page 135
- S18. Department of Transportation (Caltrans), Business, Transportation & Housing Agency -- Page 139
- S19. Department of Water Resources (DWR), Resources Agency -- Page 141
- S20. Office of Environmental Health Hazard Assessment (OEHHA), Cal/EPA -- Page 144
- S21. University of California, Cooperative Extension Service (U.C. Extension) -- Page 145

S1. Cali	fornia (Coastal C	Commiss	ion (CC	CC), Re	sources Agency
	Priority	problems	addressed	l (√) *		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
1	✓	✓	✓	✓	✓	Local Coastal Planning (R)
√	✓	\checkmark	✓	✓	✓	• Coastal Development Permits (R)
1	✓	\checkmark	\checkmark	✓	✓	Federal Consistency (R)
						• California Environmental Quality Act (R)
1	✓	✓	✓	✓	✓	Coastal Nonpoint Pollution Control Program (RM)
İ						• License Plate Funds (F)
			•			Volunteer Programs (including
						Adopt-A-Beach and Coastal Cleanup Day) (NR)
. 1	✓	✓	✓		✓	Model Urban Runoff Program (NR)
						Conservation Education Program (NR)
	•					 Boating Clean and Green Campaign (NR)
						 California Clean Boating Network (NR)
			✓		✓	• Joint CCC/BCDC Oil Spill Program
	4					(NR)
						• Local Coastal Planning (NR)
						Coastal Mapping Program (NR)

MISSION AND AUTHORITIES

The mission of the California Coastal Management Program® (Ca.Coastal MP) administered by the Coastal Commission is based on the mandates of the California Coastal Act of 1976. This mission is to protect, conserve, restore, and enhance environmental/human-based resources of the California coast and ocean for environmentally sustainable and prudent use by current and future generations. CCC program authorities include the Public Resources Code (P.R.C.) §§ 30000 et seq. (the Coastal Act), California Code of Regulations, Title 14, §§ 13000 et seq., the Lempert-

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

[®] Reference made to the California Coastal Management Program in this inventory with will be abbreviated as (Ca. Coastal MP). This will be done to prevent confusion with a like acronym used by NEP, the Comprehensive Conservation Management Plan (CCMP).

Keene-Seastrand Oil Spill Prevention and Response Act of 1990 (Cal. Government Code §§ 8670.28 et seq.), the Ca.Coastal MP, and the Federal Coastal Zone Management Act (CZMA).

II. JURISDICTION

The CCC's geographic jurisdiction is the coastal zone, a specifically mapped land and water area of the State. Stretching 1,100 air miles from Oregon to the Mexican border, the coastal zone extends seaward three nautical miles, while its landward boundary varies. In rural and generally undeveloped areas—including significant estuarine, habitat, and recreational areas—the coastal zone extends as much as five miles inland from tidally-influenced bodies of water. In developed urban areas, the boundary is as little as a few hundred feet. The CCC's jurisdiction does not extend into or around San Francisco Bay, where development is regulated by the San Francisco Bay Conservation and Development Commission (BCDC). The CCC also has review authority over federal activities or federally licensed or funded activities, whether inside or outside the coastal zone, that may affect land or water uses or natural resources of the coastal zone.

III. FUNCTIONS (regulatory, resource management, finance, and other non-regulatory)

California's coastal management program is a multi-disciplinary Statewide program, based on public participation, partnerships with local governments, and strong coastal and ocean ("coastal") resource protection policies. The California Coastal Act provides a comprehensive planning approach that integrates regulatory activities, long-range planning, and education efforts in order to preserve, protect and enhance coastal resources and public access to beaches and the ocean. The CCC's basic goals for coastal management, expressed in Coastal Act § 30001.5, are: (1) to protect, maintain, and where feasible enhance and restore the overall quality of the coastal environment and its natural and manmade resources; (2) to assure orderly, balanced use, and conservation of coastal resources taking into account the social and economic needs of the people of the State; (3) to maximize public access to and along the shoreline and maximize public recreational opportunities in the coastal zone consistent with sound resource conservation principles and constitutionally protected rights of private property owners; (4) to assure priority for coastal-dependent development over other development on the coast; and (5) to encourage State-local initiatives and cooperation in preparing procedures to implement coordinated planning and development for mutually beneficial uses, including education uses, in the coastal zone.

A. Regulatory Activities/Programs

- ◆ Local Coastal Planning The Coastal Act directs each of the 73 cities and counties in the coastal zone to prepare, for CCC review and certification, an LCP for the local government's portion of the coastal zone. An LCP includes a land use plan (LUP), zoning ordinances, zoning maps, and other legal instruments necessary to implement the LCP in a manner that implements the Coastal Act at the local level. Certified LUPs and LCPs may be amended by local governments, but the amendments do not become effective until approved by the CCC.
- ♦ Coastal Development Permits (CDPs) Subject to minor exceptions [i.e., Coastal Act §

30610 (CDP exemptions) and § 30624.7 (de minimis waivers)], any development¹ in the coastal zone requires a CDP issued either by the CCC or a local government to which this authority has been delegated. In the Morro Bay coastal zone, the City of Morro Bay and the County of San Luis Obispo issue CDPs in their respective jurisdictions pursuant to their CCC-certified Local Coastal Programs (LCPs). The CCC (1) reviews CDP applications for proposed development within its jurisdiction (the CCC retains jurisdiction over specific lands such as tidelands, submerged lands, and public trust lands); (2) retains authority to determine appeals of certain locally-issued CDPs; and (3) enforces, through its Statewide Enforcement Program, Coastal Act provisions throughout the coastal zone before and after an LCP is certified. For the latter, the CCC's authority is concurrent with that of local government.

- Federal Consistency Under the "federal consistency" provisions of CZMA § 307(c) [16 U.S.C. § 1456(c)] and federal regulations (Title 15, C.F.R. Part 930), the CCC has review authority over federal activities or federally licensed or funded activities that affect the coastal zone. This process gives the State the ability to work with federal agencies to ensure that projects which affect the coastal zone are consistent with the Ca.Coastal MP. Procedures for federal consistency reviews differ according to the type of federal agency involvement. For example, an applicant for a federal permit that affects land or water uses or natural resources of the coastal zone, whether inside or outside the coastal zone, must certify that the activity will be conducted in a manner consistent with the Ca.Coastal MP; based on Ca.Coastal MP provisions, the CCC may concur with or object to this certification of consistency. Other forms the federal consistency process may take include reviews of activities affecting the coastal zone proposed by a federal agency, and applications for federal finance assistance to State and local governments.
- ◆ California Environmental Quality Act (CEQA) The CCC participates in procedures under the CEQA primarily as a Responsible Agency by reviewing the Lead Agency's findings. In other instances, the CCC acts as the CEQA Lead Agency (e.g., for LCP certification matters or for projects proposed in the CCC's original permit jurisdiction where the CCC is the only agency with discretionary permit review authority over the project). In these cases, the CCC's responsibilities under the CEQA are normally met through the CDP or the LCP-certification processes as described in the CCC's regulations. In other cases, such as review of categorical exemptions, the CCC's Lead Agency responsibilities are those required of all Lead Agencies (i.e., preparation of Negative Declarations/Environmental Impact Reports).

B. Resource Management Activities/Programs

♦ Coastal Nonpoint Pollution Control Program (CNPCP) — Section 6217 of the Coastal

Coastal Act § 30106 defines "development" as "on land, in or under water the placement or erection of any solid material or structure; discharge or disposal of any dredged material or of any gaseous, liquid, solid, or thermal waste; grading, removing, dredging, mining, or extraction of any materials; change in density or intensity of use of land...; change in the intensity of use of water, or of access thereto; construction, reconstruction, demolition, or alteration of the size of any structure, including any facility of any private, public or municipal utility; and the removal or harvesting of major vegetation other than for agricultural purposes, kelp harvesting, and timber operations which are in accordance with a timber harvesting plan"

Zone Act Reauthorization Amendments of 1990 requires California, through a partnership between the CCC and the State Water Resources Control Board (SWRCB), to develop and implement a CNPCP. In its CNPCP, California must (1) show how it will implement. through enforceable policies or mechanisms, management measures to control nonpoint source pollution; (2) identify land uses which individually or cumulatively may cause or contribute significantly to a degradation of coastal waters; (3) identify critical coastal areas (watersheds of threatened or impaired waters), and identify and implement additional measures as needed to achieve and maintain water quality standards in these areas; (4) provide opportunities for public participation in CNPCP development and implementation: (5) demonstrate how interagency coordination will be improved and assured; (6) provide technical assistance to local governments and the public, and (7) monitor management measure implementation. In 1995, the SWRCB and CCC submitted California's CNPCP to EPA and NOAA. In 1998, EPA and NOAA conditionally approved the ENPCP; pursuant to this approval, the SWRCB and CCC are developing a comprehensive 15-year CNPCP Implementation Strategy and three related five-year Action Plans. In conjunction with the CNPCP, the CCC has published and distributed to local governments a guidance manual on managing nonpoint source pollution.

C. Finance Mechanisms

- ◆ Proceeds from public purchases of the Coastal Protection ("Whale-Tail") License Plate support a variety of coastal protection and improvement activities. Half of the plate's fees go to the CCC's Adopt-A-Beach Program or to support State Coastal Conservancy (SCC) beach improvement and habitat restoration projects; the balance goes into the Environmental License Plate fund to support habitat and park acquisition projects.
- ◆ The CCC is designated under the CCMP as the State agency to receive and pass through federal funds to the SCC and BCDC.

D. Other Non-Regulatory Programs

- ♦ Adopt-A-Beach To date, more than 10,000 volunteers from over 500 groups have participated in this year-round program of beach and waterway cleanups. When a group or school adopts a beach, its members commit to clean up the beach at least one to three times annually.
- ♦ Coastal Cleanup Day Coastal Cleanup Day, which is usually held on a Saturday in September, is the Statewide annual shoreline cleanup in which all Californians can participate.
- ♦ Model Urban Runoff Program This program is designed to assist cities and counties that have not had to develop storm water programs pursuant to the NPDES urban storm water program. Generally these are communities under 100,000 in population or that are not part of county-wide NPDES permits (such as those that cover the southern coastal counties). The Cities of Monterey and Santa Cruz are the project lead agencies, assisted by the CCC, the Association of Monterey Bay Area Governments, and the Monterey Bay National Marine

Sanctuary. The project will result in a comprehensive package of planning and zoning tools that can be distributed Statewide for use by local governments working to improve their control of runoff. This package will include (1) internal coordinating mechanisms between local agencies (planning and public works departments), (2) recommended improvements to local CEQA guidelines, and (3) a model public education program for urban runoff and other watershed issues. The package will be presented to the SWRCB where it should also be useful in implementing NPDES storm water programs for larger cities and counties.

- ◆ Conservation Education Program Programs conducted by the CCC's public education staff are designed to promote conservation awareness, recycling, and litter abatement efforts through community involvement and environmental education. Program staff provide materials related to the protection and enhancement of the coastal and marine environment, and coordinate (in coordination with other entities such as the Center for Marine Conservation and California Parks Foundation) the Adopt-A-Beach program and Save Our Seas curriculum.
- Boating Clean and Green Campaign This three-year (1997-2000) Statewide campaign will (1) facilitate installation of new services at marinas to help boaters prevent emissions of oil and other pollutants into State waters, and (2) educate boaters to use these services and other practices that reduce the pollution associated with boating.
- ♦ California Clean Boating Network (CCBN) As a participant in the CCBN, CCC staff have conducted public outreach, developed a binder that includes exemplary education products that address pollutants associated with marina and boater activity, and distributed more than 300 copies of the binders to marinas and other users of the marine environment.
- ♦ Other Activities/Programs The Coastal Resources Information Center (CRIC) is a central information center and clearinghouse for information relating to the coast. The CCC also publishes and revises the Coastal Access Guide and the Coastal Resource Guide.
- Joint CCC/BCDC Oil Spill Program Under the Lempert-Keene-Seastrand Oil Spill Prevention and Response Act of 1990, this Joint Program was created to prevent and respond to oil spill related matters along the coast and in San Francisco Bay. In coordination with OSPR and other agencies, program staff help to implement the State's oil spill prevention and response program. Responsibilities include: (1) review facility and vessel oil spill contingency plans (e.g., the plan for PG&E's Morro Bay power plant); (2) participate in the U.S. Coast Guard (USCG) Area Contingency Planning processes to improve regional preparedness for oil spill response; (3) participate in the five Harbor Safety Committees formed to improve vessel safety in major ports/harbors; (4) review State and federal regulations related to oil spill prevention and response; (5) participate in Statewide committees/taskforces to improve oil spill prevention and response technologies and operational procedures; (6) participate in the design, planning, construction, and preparation of oiled wildlife rehabilitation stations; and (7) participate in federal, State, and industry working groups to improve vessel navigation safety and routing measures. Executive Director (or designee) is a member of the State Interagency Oil Spill Committee (SIOSC) and SIOSC Review Subcommittee. Program staff also participate on the Volunteer

MB NEP Base Programs Analysis, Vol. I

Subcommittee of the USCG Area Contingency Planning process. This Subcommittee initiated a network to coordinate volunteer workers Statewide in response, containment, restoration, and cleanup efforts for oil spills in marine waters.

- ♦ Local Coastal Planning Program activities include: planning and resource management within the context of LCP certification and review; establishment to the extent possible of urban-rural boundaries; and direction of new development into areas with adequate services to avoid wasteful urban sprawl and leapfrog development. (See also Section A-1 above.)
- ♦ Coastal Mapping Program The CCC Mapping Unit conducts activities that support and enhance the CCC's planning, regulatory, and enforcement work. Activities include: providing geographic analysis and producing thematic maps required for normal agency operation; responding to coastal zone boundary determination and information requests; and acquiring coastal aerial photography and digital data for geographic information systems (GISs).

IV. ADMINISTRATION

The CCC is an independent entity of 16 members, 12 voting and four nonvoting. The Governor, Senate Rules Committee, and Speaker of the Assembly (with confirmation of the Assembly Rules Committee) each appoints two members representative of the public at large and two locally elected officials representative of the local governments in each of six coastal regions as specified in the Coastal Act (i.e., county supervisors or city councilors). The four non-voting members are: Secretary for Resources; Secretary for Business, Transportation, and Housing; Secretary for Trade & Commerce; and Chairperson of the State Lands Commission. Each Commissioner serves a two-year term and may be reappointed or replaced at any time. The CCC holds public meetings each month where the Commissioners take public testimony and make permit, planning, and policy decisions to implement the Coastal Act. The CCC is administered by a director who is subject to confirmation by the Commissioners. The CCC staff headquarters is in San Francisco; area offices are located in San Francisco, Santa Cruz, Ventura, Long Beach and San Diego. The Central Coast Area office in Santa Cruz includes coverage of the Morro Bay area.

For further information, contact:

California Coastal Commission Central Coast Area Office 725 Front St., Suite 300 Santa Cruz, CA 95060-4508 (408) 427-4863 California Coastal Commission
45 Fremont St., Suite 2000
San Francisco, CA 94105-2219
(415) 904-5200
http://www.ceres.ca.gov/coastalcomm/index.html

S2. California Department of Fish and Game (DFG), Resources Agency (includes Fish and Game Commission & Wildlife Conservation Board)

	Priorit	y problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy	Reduced	Habitat	(relating to the priority problems)
			Metals +	Flow	Loss	
✓				•	✓	Lake or Streambed Alteration
						Agreements (R)
✓	1	✓	1			Water Pollution Control (R)
				/	/	Dredging Permits (R)
				√	✓	• Take of Fish and Wildlife (R)
				1	√	Threatened and Endangered
						Species (R):
√	√	√	✓	√	√	California Environmental
		`				Quality Act (R)
				1	1	• Fish and Game Code § 1348
				1		(R)
					1	Ocean & Coastal Area
						Management (RM)
					√	• Fisheries Management (RM)
			1			State Mussel Watch & Toxic
]		Substances Monitoring
				:		Programs (RM)
					1	Natural Diversity Database
				1		(RM)
•			1			Pesticide Registration and
				ļ		Evaluation Committee (RM)
	-				1	Riparian Habitat Conservation
	[•			Program (F)
					1	Natural Community
						Conservation Plans (NR)
·	 				1	Biodiversity Council (NR)
-	1	1	1	1	1	• NRCS CRMP Process (NR)
	<u></u>		L	'		Project WILD (NR)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

I. MISSION AND AUTHORITIES

As a trustee agency for the State's resources, DFG manages California's diverse fish, wildlife and plant resources and the habitats upon which they depend, for their ecological values and for public use and enjoyment. Responsibilities related to the protection, preservation, and enhancement of fish and wildlife resources and their habitats include the regulation of activities such as grading, filling, and dredging in State waters or streambeds, thereby controlling sedimentation, erosion and pollutant discharge into streams. Program authorities include: California Fish & Game Code (F&GC) §§ 1 et seq. [e.g., Native Plant Protection Act, California Endangered Species Act, Fish and Wildlife Habitat Enhancement Act, and Natural Community Conservation Planning Act], Government Code §§ 11150 et seq., and California Code of Regulations, Title 14, §§ 1600 et seq.

II. JURISDICTION

DFG jurisdiction is Statewide. The agency is divided into five regions; Region 3 includes San Luis Obispo County. In the Morro Bay watershed, DFG manages the Morro Rock Ecological Reserve and coordinates leases of Bay underwater areas for aquaculture.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- ◆ Lake or Streambed Alteration Agreements DFG requires a public agency or private party to obtain a Lake/Streambed Alteration Agreement for any activity that will (a) divert or obstruct the natural flow of or change the bed, channel, or bank of any river, stream or lake, or (b) use material from a streambed. Based on information submitted in an application and a possible field inspection, DFG reviews the proposed activities and suggests measures to protect fish and wildlife. Measures that are acceptable to the project proponent become part of an enforceable agreement; if agreement cannot be reached on the proposed measures, the matter may be referred to binding arbitration.
- ◆ Water Pollution Control F&GC § 5650 makes it unlawful to discharge into State waters, or to permit to pass into State waters any substance or material that is deleterious to fish, plant life, or bird life. This section and other water pollution control sections of the Fish and Game Code are enforced by DFG wardens. DFG staff also report chronic (sublethal, long-term) water pollution conditions to the appropriate RWQCB, and cooperate in obtaining corrections or abatements to the condition. DFG wardens and other law enforcement officers also enforce a prohibition against the deposit in or adjacent to State waters of any cans, bottles, garbage, motor vehicles or vehicle parts, rubbish, dead mammals, or dead birds.
- Dredging Permits DFG has several regulatory and enforcement mechanisms to protect fish and wildlife from potential adverse effects of dredging. Pursuant to F&GC § 5653, an application for a permit must be submitted to DFG prior to the use of vacuum or suction dredge equipment in any State river, stream, or lake. DFG issues a permit if it determines that project operations will not be deleterious to fish. DFG also designates (a) "open" waters/areas

wherein the dredging equipment may be used pursuant to a permit, (b) waters or areas closed to the dredges, (c) the maximum size of the dredges that may be used, and (d) the time of year when the dredges may be used.

- Take of Fish and Wildlife DFG regulates and enforces the "take" of fish and wildlife through prescribed seasons, other fishing/hunting/trapping regulations and laws, and other methods established by the Fish and Game Commission. Agencies must consult with DFG concerning projects that might affect fish and wildlife resources and their habitat. For example, the State Water Resources Control Board (SWRCB) must notify DFG of all applications to appropriate water. DFG then must recommend the amount of water, if any, required to preserve and enhance fish and wildlife. In the Morro Bay watershed, DFG requires by agreement that at least 0.75 cubic feet per second of a RWQCB-permitted discharge into Chorro Creek by the California Men's Colony must remain in the Creek to support fish. DFG staff review a variety of other documents for land and water projects, Environmental Impact Reports/Statements; Coastal Development Permits; Regional Water Quality Control Board (RWQCB) NPDES permits and Waste Discharge Requirements; State Lands Commission leases and permits; Timber Harvest Plans; State and federal water resource development projects; and U.S. Army Corps of Engineers Section 10 and Section 404 permits. If necessary, DFG staff provide recommendations to prevent or mitigate adverse impacts upon fish and wildlife and their habitats.
- ♦ Threatened and Endangered Species The Fish and Game Commission makes decisions to list rare, threatened and endangered species under the California Endangered Species Act (CESA). DFG protects listed threatened and endangered species by prohibiting their take, except as specifically provided, and by protecting significant natural areas. In doing so, DFG may prepare permits or Memoranda of Understanding to avoid, mitigate, or compensate for impacts which may threaten such species. Pursuant to the CESA, a State land agency must consult with DFG to determine whether a project is likely to jeopardize the continued existence of an endangered or threatened species or result in the destruction or adverse modification of habitat essential to the continued existence of the species. DFG staff also (1) coordinate CESA review and comment efforts with the U.S. Fish and Wildlife Service and National Marine Fisheries Service; (2) maintain inventories of, and prepare an annual status report on, all listed species; and (3) interpret natural diversity for citizens.

The Endangered Species Unit in DFG's Environmental Services Division coordinates State agency consultation and issuance of take permits and management authorizations under CESA. Overall ecosystem planning and protection, and endangered plants, are the responsibility of the agency's Natural Heritage Division. Listed birds and non-marine mammals are under the jurisdiction of the Wildlife Management Division. Listed invertebrates, fishes, amphibians and reptiles are the responsibility of the Inland Fisheries Division. The Guadalupe fur seal and sea otter are under the jurisdiction of the Marine Resources Division.

◆ California Environmental Quality Act (CEQA) — Depending on the project, DFG participates in CEQA either as a Lead Agency (e.g., for artificial reef or aquaculture projects) or as a Responsible Agency. Pursuant to CEQA Guidelines § 15251(b), the Secretary of

Resources has certified that the regulatory program of the Fish and Game Commission pursuant to the Fish and Game Code meets the requirements of CEQA § 21080.5.

♦ Fish and Game Code § 1348 -- Provides for acquisition of water rights for wildlife conservation purposes among other things.

B. Resource Management Activities/Programs

- ◆ Ocean and Coastal Area Management Statewide, DFG manages 821,017 acres of land, including 103 Wildlife Areas (17 marine/coastal sites), 99 Ecological Reserves (22 marine/coastal sites) including the Morro Rock Ecological Reserve, and other public lands including 166 public access sites (41 marine/coastal sites Many of these areas have extensive natural wetland habitats. The intent of this designation is: (1) to protect threatened or endangered native plants, wildlife, aquatic organisms, specialized terrestrial and aquatic habitat types, or large heterogeneous natural marine gene pools; (2) to preserve the area in a natural conditions or to provide some level of protection for the benefit of the general public to observe native flora and fauna and for scientific study or research (3) to provide scientific research related to the management and enhancement of marine resources.
- ♦ Fisheries Management DFG promotes and enhances recreational fishing opportunities and fisheries habitat by managing sportsfishing activities and fish hatcheries, construction of artificial reefs, and restoration of wetlands, kelp beds, and other biological resources. DFG conducts a hatchery program for the production and planting of some 60 million fish each year, carries out habitat restoration projects, and conducts surveys and research.
- ♦ State Mussel Watch Program DFG conducts the Mussel Watch Program for the SWRCB. Mussels are collected along the California coastline, including in Morro Bay, and are analyzed for various toxic pollutants (e.g., organic compounds and metals). Results are reported to the SWRCB on an annual basis.
- ◆ Toxic Substances Monitoring Program In cooperation with the SWRCB, DFG investigates levels of toxins in fish collected from the Morro Bay watershed.
- ♦ Natural Diversity Database/Mapping Program DFG biologists and botanists conduct studies, surveys, and censuses annually to assess the State's fish, wildlife, and habitat resources. Data are managed through the Natural Diversity Database, which has more than 30,000 records on sensitive native plants and animals, and a state-of-the-art Geographic Information Services mapping system.
- Pesticide Registration and Evaluation Committee -- DFG participates on this interagency coordinating committee administered by DPR. The committee reviews, reevaluates, and proposes pesticide regulation.

C. Finance Mechanisms

• The Riparian Habitat Conservation Program, administered by the Wildlife Conservation Board, provides grants and loans to public agencies and nonprofits. Program priorities include acquisition and restoration of riparian habitat throughout California. The Board has

provided a grant to the Natural Resources Conservation Service (NRCS) to implement instream restoration measures on Chorro Creek within the California National Guard's Camp San Luis Obispo property.

D. Other Non-Regulatory Programs

- ◆ Natural Community Conservation Plans (NCCPs) A primary goal of the Natural Community Conservation Planning Act (NCCPA) [F&GC §§ 2800 et seq.], enacted in 1991, is to "conserve long-term viable populations of California's native animal and plant species and their habitats in areas large enough to ensure their continued existence," while at the same time allowing for "compatible and appropriate" urban growth and economic development. The NCCPA permits DFG to enter into an agreement with any person or entity to prepare and implement a NCCP. An NCCP identifies areas appropriate for regional protection and perpetuation of natural wildlife diversity as well as areas compatible with urban development, and sets forth comprehensive guidelines for conserving and managing the multiple wildlife species residing in the identified reserve areas, particularly candidate species for listing under the State or federal Endangered Species Acts. The California Resources Agency, DFG, other State and federal agencies, and the Yurok Indian Tribe are developing a new NCCP program dubbed the "Coastal Salmon Natural System Initiative." DFG and the Resources Agency are also implementing a pilot planning program under the NCCPA to preserve coastal sage scrub habitat in southern California.
- ♦ Biodiversity Council DFG is one of 10 State agencies/entities, seven federal agencies, and eight representatives from regional government associations (including the Central Coast Regional Association of County Supervisors) that have signed a Statewide Memorandum of Understanding (MOU) entitled "California's Coordinated Regional Strategy to Conserve Biodiversity." The MOU established a Statewide Biodiversity Executive Council that meets quarterly in public. The Council's primary purpose is to develop a Statewide Biodiversity protection strategy by setting Statewide goals and recommending consistent standards and guidelines for biodiversity protection.
- ◆ NRCS Coordinated Resource Management and Planning (CRMP) Process DFG is one of 15 entities that have signed a Statewide MOU supporting the CRMP process. Support from the signatory agencies consists of planning, regulation, outreach, technology transfer, implementation, finance assistance, research, and/or monitoring. The concept underlying CRMP, which operates on a local level, is that coordinating resource uses can result in improved resource management and minimizes conflict among land users, landowners, governmental agencies, and interest groups.
- Project WILD is a nationwide environmental education program. In California, DFG provides training to workshop leaders or facilitators who conduct teacher workshops. They in turn teach K-12 students in their classrooms, clubs, or organizations.
- ♦ DFG docents lead tours and conduct public education programs, surveys, restoration work, and other wildlife protection activities on DFG lands.
- DFG conducts a wide-ranging stream and watershed planning and restoration program to

maintain and rehabilitate aquatic and riparian habitats. The program stresses public participation and interagency cooperation. Approximately 1,500 projects have been completed over the past decade.

IV. ADMINISTRATION

DFG is administered by a Director who is appointed by the Governor. The Director is responsible to the Commission for the administration of the DFG in accordance with the policies set by the Commission (F&GC §§ 700-703). DFG operates out of a headquarters office and five regional offices.

The Fish and Game Commission has five members that are appointed by the Governor to six-year terms. The Commission sets general policies for the DFG. For example, the Commission is responsible for adding species to, and removing species from, the California endangered and threatened species lists and changing species' status from endangered to threatened and vice versa. The Commission, with advice from the DFG, sets ocean fishing regulations within State waters, consistent with fishery plans developed by the Pacific Fishery Management Council. The Commission also regulates inland fishing, except for Native American fishing on reservation lands (this latter activity is under jurisdiction of the U.S. Bureau of Indian Affairs).

The Wildlife Conservation Board, a separate legal entity within the DFG, is the real estate arm of DFG. The Board investigates areas to determine their suitability for wildlife production and preservation, and authorizes and provides funding for land acquisition, development, and restoration projects. The Board also develops recreation facilities and public access to natural resource areas, and works closely with DFG to coordinate spending of Water, Parks, and Wildlife Bond (Proposition 70) funds.

For further information, contact:

DFG Regional Addresses include:

- Central Coast Region (Region 3)
 P.O. Box 47
 Yountville, CA 94599
 (707) 944-5500
- Marine Resources Division 213 Beach Street Morro Bay, CA 93442 (805) 772-1261

Headquarters Addresses:

- Department of Fish and Game 1416 Ninth Street, 12th Floor Sacramento, CA 95814 (916) 653-7664 http://www.dfg.ca.gov
- Fish and Game Commission 1416 Ninth Street, 13th Floor Sacramento, CA 95814 (916) 653-4889
- Wildlife Conservation Board 801 K St., Suite 806 Sacramento, CA 95814 (916) 445-8448

	Priorit	y problems	s addressed	l (√) *		Key programs/activities/etc.		
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems		
			1			• Contingency Planning (R)		
			1			• Enforcement and Inspection (R)		
			1			Field Service and Resource Assessment activities (RM)		
			1			Oil Spill Prevention and Administrative Fund (RM)		
	·		1			Oil Spill Response Trust Fund (F)		
			1			Volunteer Network & Voluntee Outreach Program (NR)		
			1			Education-Outreach and Science Programs (NR)		
			1			Coordination, Information Branch (NR)		
			1			Drills and Exercises Program (NR)		
			√			 Harbor Safety Committees (NR 		
			1			Area Committee Plans (NR)		

I. MISSION AND AUTHORITIES

The OSPR was created within the California Department of Fish and Game (DFG) by the Lempert-Keene-Seastrand Oil Spill Prevention and Response Act of 1990 (OSPRA). Both a spill prevention and a spill response organization, OSPR retains DFG's public trustee and custodial responsibility for protecting and managing the State's fish, wildlife, and plants. Although OSPR is the lead State agency for oil spill prevention and response, this responsibility is shared with 22 agencies represented on the State Interagency Oil Spill Committee (SIOSC). OSPR's primary authorities include: the Lempert-Keene-Seastrand Oil Spill Prevention and Response Act of 1990 (Cal. Government Code §§ 8670.28 et seq.); Public Resources Code, Division 7.8; California Code of Regulations, Title 14, §§ 815.01 et seq.; and the Federal Oil Pollution Act of 1990.

• Coastal Protection Review (NR)

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

II. JURISDICTION

OSPR's jurisdiction covers spills that may affect State waters. The OSPR and U.S. Coast Guard (USCG) also co-lead the regional Area Committees formed pursuant to the Federal Oil Pollution Act of 1990 (OPA '90) to plan for oil spill response. The Area Committee Plan that includes the Morro Bay watershed covers San Luis Obispo, Santa Barbara, and Ventura Counties, as well as San Miguel, Santa Cruz, Santa Rosa, Anacapa, and Santa Barbara Islands (see Section III-F).

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activity/Programs

- ♦ Contingency Planning Under the OSPRA, the OSPR Administrator is required to develop a State Oil Spill Contingency Plan and to establish guidelines and regulations for other levels of oil spill contingency plans including marine facilities, tankers, barges and local governments. OSPR requires oil spill contingency plans for all marine facilities with potential discharge into the marine waters of the State, and for all non-public vessels that carry petroleum product as cargo within State waters. Contingency plans, which must be consistent with federal government requirements established under OPA '90, are reviewed and approved by OSPR's Planning, Drills and Monitoring Branch (PDM). In adopting regulations/guidelines for marine facilities and vessels, the OSPR Administrator must provide "best achievable protection" and "best achievable technology" standards to protect the State's coastal resources and marine waters from impacts or potential impacts of oil spills. The Administrator must also take into consideration the marine facility or vessel contingency plan requirements of the national and State contingency plans, the State Lands Commission, the State Fire Marshal, and the California Coastal Commission. regulations/guidelines are also developed in consultation with the SIOSC and the Oil Spill Technical Advisory Committee.
- Enforcement and Inspection OSPR enforces laws designed to prevent spills, dispatches units to respond to spills, and investigates spills. OSPR's 24-hour Communications Center in Sacramento dispatches OSPR/DFG wardens who (1) conduct spill investigations, (2) gather and prepare evidence (an essential element in any court case), and (3) have authority to enforce the criminal statues contained in the OSPRA. The OSPR Administrator establishes procedures and regulations for civil and/or criminal penalties for violations of the OSPRA.

B. Resource Management Activity/Programs

Field Services Unit — Field Services Unit staff responsibilities include resource assessment, resource/habitat inventory, injury determination during oil spill response, environmental sensitivity analyses of resources at risk, and data collection for resource management. Data for the OSPR's resource inventory are collected by identifying habitat types and analyzing habitats most at risk from oil spills. This information is used to develop pre-incident response strategies and priorities which are incorporated into the Area Committee Plans. During a spill, staff coordinate with OSPR wardens on sample collection, containment, and cleanup measures and other matters relating to habitat and biological resources. They may

also provide initial response to a spill, and are consulted about specific biological information about an area. The State's recovery of resources damaged by an oil spill depends on accurate resource inventories, actual quantification of losses, followed by post-spill comparisons.

♦ Resource Assessment Unit — Duties of this unit include veterinarian services, coordination and training of wildlife rescue, cleaning, and rehabilitation teams, site restoration/mitigation, management of fixed and mobile rehabilitation facilities, resource economic assessments, and management of the resource inventory mapping and marine diversity databases.

C. Finance Mechanisms

The OSPR Administrator administers the Oil Spill Prevention and Administrative Fund and the Oil Spill Response Trust Fund. OSPR funds specified activities and programs, and reimburses other agencies, through fees deposited into these funds [see also Section IV (Funding)].

- ♦ Oil Spill Prevention and Administrative Fund These funds are to be used solely for all of the following purposes (OSPRA § 8670.40):
 - to implement spill prevention programs through rules, regulations, leasing policies, guidelines, and inspections and to implement research into prevention and control technology;
 - to carry out studies which may lead to improved oil spill prevention and response;
 - to finance environmental and economic studies relating to the effects of oil spills;
 - to reimburse the member agencies of the SIOSC for specified costs incurred;
 - to implement, install, and maintain emergency programs/equipment/facilities to respond to, contain and clean up spills and to ensure that operations will be carried out as intended;
 - to respond to an imminent threat of a spill (a threatened discharge) as specified; and
 - to reimburse the State Board of Equalization for related costs incurred.
- ♦ Oil Spill Response Trust Fund These funds are to be used solely for any of the following purposes (OSPRA § 8670.48):
 - to provide funds to cover costs of response, containment, and cleanup of oil spills into marine waters, including costs of damage assessment and wildlife rehabilitation;
 - to provide emergency loans and to cover response and cleanup costs and other damages suffered by the State or other persons or entities from oil spills into marine waters which cannot otherwise be compensated by responsible parties or the federal government;
 - to pay specified other costs, including claims for damages, finance security, indemnity and related costs/expenses, and borrowing costs (e.g., interest, premium, fees, and charges);
 - to pay for the costs of rescue, medical treatment, rehabilitation, and disposition of oiled wildlife, as incurred by the network of oiled wildlife rescue and rehabilitation stations created pursuant to OSPRA § 8670.37.5.
- Science Program -- Through its Science Program, OSPR funds projects associated with oil spill dispersants, bioremediation, wildlife biomedical studies, and biological resource

inventory. Data from these investigations are used to (a) develop decision-making protocols for the use of oil spill cleanup agents, (b) aid the treatment, care, and rehabilitation of oiled wildlife, and (c) improve and refine marine wildlife injury assessment. Research projects funded by the OSPR include:

Dispersant Efficacy Testing	Rehabilitated Seabird Monitoring
Dispersant Effect Research	Wildlife Biomedical Studies
Biological Fate of Chemically Dispersed Oil	California Seabird Monitoring
Bioremediation Research	Wildlife Aerial Survey Program
Pinniped Research	Oil Spill Wildlife Response Team

D. Other Non-Regulatory Programs

- ♦ Volunteer Network OSPRA § 8670.8.5 permits the OSPR Administrator to use volunteer workers in response, containment, restoration, and cleanup efforts for oil spill in marine waters. Consequently, OSPR has initiated a Statewide volunteer coordination effort for oil spill response. OSPR's Resources Assessment Unit staff train wildlife rescue, cleaning, and rehabilitation volunteers or volunteer organizations, and coordinate and direct volunteers in the physical rescue and treatment of marine birds and mammals.
- ♦ Volunteer Outreach Program Through its Education-Outreach Program, OSPR has established a program whereby operators of small craft refueling docks can volunteer to have OSPR Oil Spill Prevention Specialists inspect their facilities (see Section III-E below).
- Education-Outreach Program Pursuant to State law, OSPR maintains an Education-Outreach Program in order to assist Small Craft Refueling Dock operators in their prevention and response efforts. State law identifies small craft refueling docks (a waterside operation serving primarily small craft of less than 20 meters in length and less than five tons net weight) as a class of facilities that may apply for exemption from filing the formal oil spill contingency plans and Certificates of Finance Responsibility that are required of larger marine facilities and terminals. Docks that meet the legally specified conditions and that are certified by OSPR as "exempt," however, are responsible for making efforts to prevent oil spills, and for immediately reporting any spills that occur (the latter by telephoning the USCG and the California Office of Emergency Services at their toll-free phone numbers). The Outreach Program being developed provides information through (1) brochures and flyers, (2) signs, (3) telephone contact, (4) voluntary inspections by Oil Spill Prevention Specialists (who can identify strengths and weaknesses in a refueling dock's system, and when appropriate show a dock operator ways to improve his/her ability to prevent and respond to spills), (5) training in spill prevention, response, and new technologies, (7) written education materials, and (7) live, narrated slide presentations for groups. The Outreach Program Coordinator works with other agencies and organizations to develop and share information on pollution prevention products and techniques through networks such as the California Clean Boating Network (CCBN) and the five Harbor Safety Committees.

- Science Program OSPR has established a focused program of applied research and natural resource monitoring related to oil spill response, cleanup, and natural resource protection. The primary purpose of these studies is to improve oil spill response capabilities including containment, cleanup, oiled marine wildlife veterinary medicine, and to determine the effects of oil on wildlife. OSPR staff responding to oil spills also provide technical assistance with regard to initial site safety issues, spill cause determination, procedures to slow/stop additional releases, spill quantity determination, and technical input to the recovery/disposal effort. OSPR's scientific program includes a new state-of-the art petroleum chemistry laboratory and other services such as environmental sensitivity area mapping, a comprehensive geographical information system, natural resource damage assessment, veterinary expertise, and sponsorship of related research needs.
- ♦ Coordination, Information Branch Duties of this Branch of the OSPR include: distribute information; provide communication between the OSPR, the oil industry, and the public; provide a central location and clearing-house for public documents, reports, media and legislative contacts; act as liaison to and provide technical support for the SIOSC.
- ◆ Drills and Exercises Program OSPR has initiated a drills and exercises program designed to track and evaluate drills required by the contingency planning regulations. In coordination with the USCG, OSPR staff assist in design, conduct, and evaluation of all types of drills (e.g., equipment deployment, tabletop, etc.) with facility and vessel owner/operators. OSPR wardens and PDM staff participate in drills as players, controllers, or evaluators as necessary.
- ◆ Harbor Safety Committees OSPR has created and funds Harbor Safety Committees for the State's major harbor areas (San Diego; Los Angeles/Long Beach; Port Hueneme; San Francisco, San Pablo and Suisun Bays; and Humboldt Bay). OSPR staff assist the Harbor Safety Committees in developing harbor safety plans to reduce the risk of marine vessel accidents within or on approach to the State's busiest ports.
- ♦ Area Committee Plans (ACPs) The OSPR helped the USCG and regional Area Committees to develop individual ACPs for seven geographical sections of the California coast. The Area Committees are comprised of representatives from over 50 agencies and organizations, including environmental groups, city and county planners, State agencies, the federal government, and industry. Together the seven individual ACPs, which are administered by the USCG, serve as a "one-stop" marine pollution response plan and guarantee that all of the State's shoreline resources have been considered in detail for contingency planning. The nature of the planning process requires that all of the ACPs be continuously updated and revised.
- ♦ Coastal Protection Review OSPR staff have completed a Statewide Coastal Protection Review which identifies oil-spill-response deficiencies, and suggests strategies to address the deficiencies.
- Other Pursuant to the OSPRA, the Administrator (a) established and chairs the SIOSC and the SIOSC Review Subcommittee; (b) established an Oil Spill Technical Advisory Committee (composed of government, industry experts, and the public); and (c) developed

MB NEP Base Programs Analysis, Vol. I

with Alaska, Oregon, and Washington (and in coordination with British Columbia and Mexico) an interstate compact regarding tanker safety and oil spill response/prevention. OSPR is also working with the USCG to evaluate vessel traffic routing and other safety measures Statewide to reduce pollution incidents off the California coastline; to that end, OSPR has brought into operation, and is helping to fund, a working Vessel Traffic Information Service (VTIS) system for Los Angeles and Long Beach Harbors.

IV. ADMINISTRATION

The OSPR Administrator is a chief deputy director of the Department of Fish and Game and is appointed by the Governor subject to the advice and consent of the State Senate. The Administrator has substantial authority to direct and coordinate State response, cleanup, and natural resource damage assessment activities associated with oil and hazardous materials spills that impact or threaten California coastline areas or waterways.

For further information, contact:

Morro Bay OSPR Field Office 213 Beach Street Morro Bay, CA 93442 (805) 772-1756 Department of Fish and Game, OSPR 1700 K Street, Suite 250 Sacramento, CA 95814 (916) 445-9338 http://www.dfg.ca.gov/ospr

S4. Calif Agency	ornia De	partmen	t of Healt	h Servic	es (DHS	S), Health & Welfare
	Priorit	y problems	addressed (√)*		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
	√		1			State Shellfish Sanitation Program (R)
	√	1	√			Drinking Water Source Assessment and Protection Program (RM)
	1	1	1			Wellhead Protection Program (RM)
	√	1	1			Public Water System Finance Assistance Program (F)

I. MISSION AND AUTHORITIES

DHS's mission is to protect and improve the health of all Californians For example, the agency's Division of Drinking Water and Environmental Management (DWEM) promotes and maintains a physical, chemical, and biological environment which contributes positively to health, prevents illness, and assures protection of the public through the regulation and monitoring of public water systems, wastewater reclamation projects, disposal of low level radioactive waste, and shellfish production and harvesting operations.

Primary authorities of the agency include the California Health & Safety Code (H&SC) §§ 100100 et seq.; California Code of Regulations, Title 17, §§ 100 et seq.; and the Federal and California Safe Drinking Water Acts.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

² In 1995, Senate Bill 1360 reorganized the Health and Safety Code. Sections related to estuary protection include: sanitary control of shellfish (§§ 112150-112280); recreational water use at public beaches (§§ 115875-115915); drinking water (§§ 116275-117130); and garbage and onsite sewage disposal (§§ 117400-117590).

II. JURISDICTION

Statewide.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

♦ Overview of Regulatory Activities

- DHS administers and enforces sanitation standards for shellfish growing waters, and the
 harvesting and handling of shellfish intended for human consumption, monitors waters
 for bacterial contamination, and issues shellfish safety warnings during unsafe bacterial
 levels. The monitored levels can serve as an indicator of nonpoint source pollution.
- DHS establishes minimum standards for the sanitation of public beaches, including refuse removal, as necessary to protect public health and safety. Local health officers inspect public beaches in their jurisdiction to determine if compliance with the standards is occurring. If any violation of the standards is found, the health officer shall restrict the use of, or close, all or part of the beach until compliance with such standards occurs.
- DHS sets maximum contaminant levels for contaminants in drinking water, and certifies laboratories that perform regulatory analyses of drinking water, waste water, hazardous wastes, contaminated soils/sediments, and/or pesticide residues.
- DHS administers control programs, maintained by local health officers, to prevent backflow and contamination of public water systems (e.g., program provisions require that irrigation systems that are used to apply pesticides or fertilizers shall be equipped, at a minimum, with reduced pressure backflow prevention).
- DHS administers and enforces provisions for the protection of the water quality of sources of drinking water supply, including: (1) placing of any septic tank in or upon the borders of any river, creek, pond, reservoir or stream in a manner that waters become polluted; and (2) pollution by livestock of waters, or tributaries of waters, used for drinking supply.
- DHS regulates dumping of "garbage" (including swill, refuse, cans, bottles, paper, vegetable matter, dead animal carcasses/offal, trash, rubbish, radioactive waste materials, and discarded, nonbiodegradable materials such as plastics or damaged/broken marine equipment) in or upon the navigable waters of the State, or that is loaded on any vessel with the intent that the garbage shall be dumped in or upon navigable waters of the State.
- DHS is responsible for aspects of solid waste management and resource recovery as they
 directly affect human health, including: contamination of air, water, and land; handling
 and disposal of hazardous wastes; and management practices that threaten public health.
 The agency establishes minimum standards for solid waste handling/disposal for the
 protection of the public health.

- ♦ The California Shellfish Sanitation Program DHS has the responsibility to determine if a public health risk is associated with eating shellfish from a location in California. It is unlawful in California to sell, offer, or hold for sale for human consumption any shellfish unless the harvest area is certified by DHS (a harvest area may be any waterbody that meets certain standards of cleanliness, as well as an onshore aquaculture system). DHS may close a shellfish growing area upon a determination that shellfish taken from the area may be unsafe or unfit for human consumption. Within DHS, this program is divided into two components:
 - Pre-harvest. DHS staff protect public health from commercial and recreational shellfish harvesting by providing surveillance, Shellfish Growing Area Certificates, monitoring (for water quality/marine biotoxins), and enforcement. A shellfish growing area can not be certified until a sanitary survey of the proposed area and its watershed is conducted. The survey evaluates the watershed or source of water during all seasons of the year, and seeks to determine hazards associated with all actual and potential sources of pollution (e.g., sewage treatment plants, industrial plants, urban runoff, and agricultural operations). EMB staff conduct the sanitary survey with applicant participation on a cost-sharing basis.
 - <u>Post-harvest</u>. DHS staff regulate post-harvest handling, processing, and distribution of shellfish, and issue a **Shellfish Handling and Marketing Certificate**.

DHS has monitored total and fecal coliform levels in Morro Bay since 1990, and on occasion has halted shellfish harvesting in the Bay due to bacterial contamination. At these times, DHS and the RWQCB have jointly undertaken investigations to determine bacteria sources. Joint efforts are also being undertaken to control live-aboard boat discharges, private liftstation failures, and other discharges. The City of Morro Bay Public Works Department provides data to DHS collected for compliance with their NPDES Permit for wastewater discharge to Chorro Creek. The DHS (1996) report Commercial Shellfish Growing Area Sanitary Survey Report and Reevaluation for Morro Bay, California (reports were also published in 1985 and 1974) classifies shellfish growing areas in Morro Bay as "conditionally approved" for commercial harvesting due to "the potential for intermittent microbiological pollution from various sources (including runoff from the watershed during The DHS-adopted Management Plan for Commercial Shellfishing in rainfall events)." Morro Bay California establishes standards, conditions and procedures necessary to manage harvesting from the conditionally approved area of shellfish intended for sale for human consumption.

B. Resource Management Activities/Programs

♦ California Drinking Water Source Assessment and Protection (DWSAP) Program — The 1996 reauthorization of the federal Safe Drinking Water Act (FSDWA), which is implemented in California by the DHS, includes an amendment establishing a state program to protect sources of drinking water. This program envisions a partnership between state and local agencies to ensure that the quality of drinking water sources is maintained and protected. Initially, development of a source water assessment program will require DHS (1) to delineate the boundaries of the areas from which public water systems receive supplies of

drinking water, and (2) to identify contaminants and their sources within the delineated areas in order to assess the susceptibility of the water system to these contaminants. The groundwater portion of the DWSAP will serve as California's Wellhead Protection Program.

C. Finance Mechanisms

◆ Public Water System Finance Assistance Program — The 1996 FSDWA amendments include provisions for providing grants to states to establish a State Drinking Water Revolving Fund Program, pursuant to the State Legislature's approval of legislation authorizing the establishment of this program, and the State's ability to provide 20% matching funds. The program, which would be administered by the DHS, would provide low interest loans and other assistance to make necessary improvements to public drinking water systems.

D. Voluntary Initiatives/Incentive Programs (i.e., public and/or private efforts)

- ♦ Epidemiological Investigations In the event that an outbreak in pesticide poisoning or any disease or condition caused by pesticide poisoning has occurred in a county, and upon request by the county's local health officer, DHS provides the local health officer with the necessary staff and technical assistance to conduct an epidemiological investigation of the outbreak; where appropriate, makes recommendation to control or prevent such poisoning outbreaks.
- Other Activities DHS conducts research, studies, monitoring, and demonstration projects relating to the provision of a dependable safe supply of drinking water. Pursuant to a 1992 Memorandum of Understanding with the State Department of Pesticide Regulation, DHS shares information on monitoring results that are positive for pesticide residues. A DHS representative participates on the Pesticide Regulation and Evaluation Committee administered by DPR to review, evaluate and propose pesticide regulation. DHS also serves as an advisor to other agencies including provision of technical assistance, formulation of technical criteria and guidelines, consultation, education, risk assessment, hazard determination, and issuance of recommendations.

IV. ADMINISTRATION

DHS is one of 13 departments comprising the Health and Welfare Agency. The DHS executive officer (the Director of Health Services) is appointed by the Governor, subject to confirmation by the Senate. DHS has more than 5,000 employees working in the Sacramento headquarters office or in the more than 60 field offices located throughout the State. DWEM branches include those listed below.

- ♦ The Environmental Management Branch (EMB) plays a critical role in protecting public health as it relates to the safety of marine waters and seafood consumption.
- ♦ The Drinking Water and Technical Programs Branch maintains the scientific expertise of the drinking water program and carries out its administrative functions.

The Drinking Water Field Operations Branch inspects and oversees public water systems to assure delivery of safe drinking water. It provides assistance and/or training on water quality issues to local health departments, Regional Water Quality Control Boards (RWQCBs), and the Department of Toxic Substances Control.

For further information, contact:

Regional Offices:

- California Department of Health Services
 P.O. Box 1480
 Lompoc, CA 93436
 (805) 733-1696
- California Department of Health Services
 Environmental Management Branch
 2151 Berkeley Way, Room 118
 Berkeley, CA 94704
 (510) 540-3423

Headquarters Office:

California Department of Health Services 714/744 P St.
P.O. Box 942732
Sacramento, CA 94234-7320
(916) 445-4171
http://www.dhs.cahwnet.gov

S5. Dep	S5. Department of Pesticide Regulation (DPR), Cal/EPA								
	Priority	problems	addressed	Key programs/activities/etc.					
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)			
			1			Pesticide Product Registration/ Re-evaluation (R)			
			✓			Restricted Materials Permitting (R)			
			1	,		Pesticide Licensing/Certification (R)			
			. 🗸			• Incident Investigation (R)			
						 California Pesticide Management Plan for Water Quality/Management Agency Agreement with State Water Resources Control Board (1997) (R) 			
			√ .			• Ground Water Protection Program (R)			
			✓			Surface Water Protection Program (R)			
			✓			Endangered Species Program (R)			
			1			Pest Management Grants (F)			
			√			Pest Management Alliance Program (F)			
			1	-		Integrated Pest Management (IPM) Innovators Program (NR)			
			1			Training (NR)			

MISSION AND AUTHORITIES

DPR regulates all aspects of pesticide sales and use, recognizing the need to control pests, while protecting public health, the environment, and fostering reduced-risk pest management strategies. DPR program authorities include; the Food and Agricultural Code (FAC) §§ 11401 et seq. [including the Birth Defect Prevention Act (FAC § 13121) and the Pesticide Contamination Prevention Act of 1985 (FAC § 13141)]; California Code of Regulations, Title 3 §§ 6000 et seq. and Title 27, Division 2), and the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

II. JURISDICTION

DPR has primary responsibility for evaluating and mitigating environmental and human health impacts of pesticide use in California. It oversees pesticide registration and the safety of the pesticide workplace, and enforces State and federal pesticide laws Statewide.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- ♦ General Pesticide Regulation, Enforcement, Evaluation, & Registration Authorities DPR, under authority of the Food and Agricultural Code, is the lead agency, with local administration by County Agricultural Commissioners (CACs), for pesticide regulation in California. DPR has the authority and responsibility to:
 - provide for the proper, safe, and efficient use of pesticides that are essential for protecting the public health and safety in the production of food, fiber, forest products, ornamental horticulture, and for other uses that include structure, home and landscape maintenance;
 - protect the environment from environmentally harmful pesticides by prohibiting, regulating, or ensuring proper stewardship of those pesticides;
 - assure agricultural and pest control workers of safe working conditions where pesticides are present;
 - permit pest control by competent and responsible licensees, certificate holders, permittees, and operator identification holders under strict control of the DPR director and CACs;
 - assure consumers and users that pesticides are properly labeled and are appropriate for the
 use designated by the label, and that State or local dissemination of information on uses
 of any registered pesticide is consistent with the uses for which the product is registered;
 - encourage the development and implementation of pest management systems, stressing
 application of biological and cultural pest control techniques with selective pesticides
 when necessary to achieve acceptable levels of control with the least possible harm to
 non-target organisms and the environment;
 - continuously evaluate pesticides to determine if any endanger the agricultural or nonagricultural environment, placing appropriate restrictions on use including limitations on worker reentry, quantity used, area treated, and manner of application;
 - establish, as necessary, criteria to evaluate environmental effects of pesticides; and
 - coordinate with other local, State, and federal agencies responsible for environmental issues regarding pesticides and water quality.
- ♦ Pesticide Product Registration The FAC requires that DPR thoroughly evaluate and register pesticides before they are sold or used in California. The DPR Director may refuse to register, or may cancel, any pesticide that falls under specified criteria, including: serious, uncontrollable adverse effects on the environment; less public value or greater detriment to the environment than benefit received from its use; use that is detrimental to vegetation, domestic animals or public safety; or use that is of little or no value for its intended purpose. Reevaluation of product registration is often triggered by ongoing DPR registration reviews, State and county pesticide use surveillance/illness investigations, pesticide residue

sample analyses, environmental monitoring, or new information. If an adverse impact has occurred or is likely to occur, the regulations require DPR to reevaluate the registration of the pesticide. Factors that may initiate reevaluation include: (a) public/worker health hazard; (b) environmental contamination; (c) residue over tolerances; (d) fish or wildlife hazard; (e) other information suggesting a significant adverse risk; or (f) availability of an effective, feasible alternate material or procedure that is demonstrably less destructive to the environment. DPR consults with other public agencies regarding proposed pesticide registrations/re-evaluations. This is accomplished through routine contacts and, more formally, through administration of the Pesticide Registration and Evaluation Committee (PREC), which includes representatives of DPR, Department of Health Services, Department of Industrial Relations, Department of Fish and Game (DFG), State Water Resources Control Board (SWRCB), Air Resources Board, University of California, and the CACs Association.

- ♦ Restricted Materials and Permitting Program Pesticides are designated "restricted" materials through promulgation by the Director. Restricted materials generally require a permit from the CACs prior to possession or use. Criteria established to designate a pesticide a restricted material include hazard to public health, farm workers, domestic animals, honeybees, the environment, wildlife, or other crops (FAC § 14004.5).
- ♦ Pesticide Licensing and Certification Program The DPR certifies restricted use applicators and examines and licenses pest control operators, agricultural aircraft pilots, and pesticide dealers/advisers to ensure that persons selling, possessing, storing, handling, applying, and recommending pesticide use are qualified and knowledgeable in the proper and safe use of pesticides. To renew certificates/licenses, the holder must complete specified minimum continuing education hours within each two-year certificate/license period.
- Incident Investigation The DPR and/or CAC investigate reports of actual or potential significant adverse effects to people or the environment resulting from pesticide use. Criteria that trigger "priority" investigation status and special handling include: specified human effects (e.g., death, serious illness/injury, or illness to five or more persons); significant contamination of land, air, or surface or ground water; property loss; or fish and wildlife kills. After an investigation, DPR or the CAC may (1) issue sanctions for pesticide misuse, (2) evaluate pesticide use patterns or the effectiveness of the pesticide regulatory system, (3) develop mitigation measures to avoid future injury or damage, or (4) cancel products/product uses.
- ♦ California Pesticide Management Plan for Water Quality & Management Agency Agreement (MAA) with SWRCB —This Plan describes how DPR and the CACs will work with the SWRCB/RWQCBs to coordinate their overlapping authorities and protect water quality from potential adverse effects of pesticides. The Plan provides for outreach programs, compliance with water quality standards, ground and surface water protection programs, regulatory compliance, interagency communication, and dispute/conflict resolution. The plan also lists reduced-risk practices to minimize the potential for offsite pesticide movement and transport of residues to ground or surface water. The MAA between DPR and the SWRCB serves as an implementation plan for the management and protection of surface water quality. DPR and SWRCB meet at least annually to discuss existing and

proposed projects, evaluate the effectiveness of the MAA and Plan, discuss DPR and SWRCB priorities, and consider changes to the MAA. CACs and Regional Board staff are encouraged to attend. In addition, DPR and SWRCB staff will meet at least twice each year to discuss recent activities of each agency, technical issues that deal with pesticides and water quality, and overall program direction

- Ground Water Protection Program —DPR has authority to prevent further pesticide pollution of ground water from legal use of currently registered pesticides. Under this program, DPR (1) evaluates factors that affect the movement of pesticides to ground water, (2) monitors ground water for pesticide contamination, (3) identifies and designates sensitive areas as Pesticide Management Zones, and (4) develops reduced-risk practices that, when implemented, will minimize movement of pesticides to ground water and improve water quality. DPR also identifies and tracks pesticides on its Ground Water Protection List (a list of pesticides that have the potential to pollute ground water).
- ♦ Surface Water Protection Programs DPR has several programs designed to prevent further pesticide pollution of ground water from legal agricultural use of currently registered pesticides. The Rice Pesticide Program is intended to reduce discharges to surface waterways of the pesticides molinate and thiobencarb which are used by rice growers. The Dormant Spray Water Quality Program is intended to prevent aquatic toxicity from organophosphate pesticide residues (diazinon, chlorpyrifos, and methidathion).
- ◆ Endangered Species Program —DPR studies ways to protect listed species from potentially harmful exposure to pesticides. DPR's resource base of information on pesticide exposure to species of concern includes: (1) a comprehensive library on the toxicology of pesticides to aquatic organisms; (2) a record of all agricultural uses of pesticides (by active ingredient, rate of application, commodity, date applied, and location); (3) a permit system that provides advance notice of applications of pesticides that pose particular risks to nontarget organisms; (4) an Internet site that provides information on protection of listed species; (5) agreements with DFG to investigate any fish or wildlife losses where pesticides are suspected; (6) a statutory partnership with CACs to enforce pesticide use violations; and (7) staff that develops pesticide use limits and applicator training materials for protection of listed species.

B. Resource Management Activities/Programs

• DPR's resource management activities overlap with other functions described in this section.

C. Finance Mechanisms

Pest Management Grants — DPR provides funding for the development of innovative pest management practices that reduce risks associated with pesticide use. This grants program provides support for groups to work with university researchers, private industry, and consultants as necessary to set up demonstration or applied projects of new integrated pest management (IPM) systems. Projects that focus on a new, reduced-risk technology or practice and its adoption by a group are also considered. Priority for applied research grants

MB NEP Base Programs Analysis, Vol. I

is given to agricultural projects on a farm scale and nonagricultural projects that develop critical components of a pest management system threatened or disrupted due to environmental and human health impacts, regulatory activities, resistance problems, or introduction of new pests.

♦ Pest Management Alliance Program — DPR is launching a new initiative to develop partnerships involving applied research, implementation, and/or demonstration projects in pest management. The goal is to develop and demonstrate pest management systems that are both economically sound and that reduce the risk to public health and the environment.

D. Other Non-Regulatory Programs

- ♦ IPM Innovator Award Program In 1994, DPR established this award program to help disseminate information on alternative methods of pest management. The program is designed to give recognition to growers and others who are developing and using innovative ways of managing pests, and to coordinate the formation of new "innovator" groups.
- Training DPR staff provide training to CAC staff biologists who work in pesticide use enforcement. DPR staff also conduct a series of annual ground water training courses given for Pest Control Advisers who wish to write ground water protection advisories.
- ◆ California Pesticide Management Plan for Water Quality (Plan) -- See Regulatory Programs/Activities.

IV. ADMINISTRATION

DPR is administered by a Director who is appointed by the Governor. The Director is responsible to the Secretary of Cal/EPA.

For further information, contact:

Department of Pesticide Regulation 1020 N Street, Room 100 Sacramento, CA 95814-5624 (916) 324-4100 http://www.cdpr.ca.gov

	gional W	ater Quali	ty Contro	l Board (RWQC	CB) — Central Coast Region,
	Priority	y problems	addressed	(√)*		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
1	1	1	√	1		National Pollutant Discharge Elimination System (NPDES) (R)
✓				1	1	Water Quality Certification (R)
√	1	1			. 1	Waste Discharge Requirements (WDRs) (R)
	1	1				Prohibitions and Prohibition Exemptions (R)
√	✓	. ✓	✓	✓	✓	Enforcement Actions (R)
✓	✓	✓.	√	1	1	Department of Defense (R)
✓	✓	. `	√		1	Spills, Leaks, Investigation and Cleanup (SLIC) (R)
			1			Underground/Above Ground Tanks (R)
1	√	√	1	1	1	Basin Planning (R) (RM)
√	1	1	1		1	TMDLs (R)
			√			Bay Protection and Toxic Cleanup Program (BPTC) (RM)
1	\	1	✓ .	1	1	Nonpoint Source Management Program (RM)
	1	1	1	√	1	Water Quality Assessment (RM)
			✓			Pesticide Management (RM)
1	√	1	1	1	1	CEQA Document Review (RM)
√	1	1	1		1	Regional Monitoring (RM)
√	√	√	1	1	1	Watershed Management Initiative (RM)
√	1	1	√		1	• Clean Water Act Section 205(j) and 319(h) Grant Funds (F)
				 		Underground Tank Fund (F)
1	1	1	1	1	1	State Revolving Fund (F)
1	1	1	1	1	1	Volunteer Monitoring (NR)
1	√	1	1	1	1	Public Education/Technical (NR) Assistance
1			1			• Inactive Mine Reclamation/Remed.

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

I. MISSION AND AUTHORITIES

The mission of the Central Coast RWQCB is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations. RWQCB program authorities include the California Water Code (C.W.C.) §§ 3000 et seq. (the Porter Cologne Water Quality Control Act of 1969) and particularly C.W.C. §§ 13050, 13240, 13260, 13267, 13304, 13245, & 13390; the Health and Safety Code, Division 20, chapter 6.67; the California Code of Regulations (Title 27, Division 2); and the Federal Clean Water Act (CWA), particularly CWA §§ 402, 401, 303, 319, and 205(j).

CWA § 13050 directs each RWQCB to adopt a water quality control plan (basin plan), defined as having three components: beneficial uses of water bodies which are to be protected, water quality objectives which protect those uses, and an implementation plan which accomplishes those objectives. The current Basin Plan for the Central Coast RWQCB was prepared on September 8, 1994 and includes revisions dated April 14, 1995. The Basin Plan identifies beneficial uses for the Morro Bay Estuary. The Basin Plan also lists both water quality objectives for estuaries and objectives specific to beneficial uses. For example, water contact recreation is an identified beneficial use for the Morro Bay Estuary. Water quality objectives for this beneficial use include pH values and bacteria concentrations in terms of fecal coliform. The Basin Plan describes the RWQCB's implementation plan to protect the beneficial uses and meet the water quality objectives. This includes descriptions of the tools available to the RWQCB under authority of the rules and regulations itemized above, as well as plans and policies of the State Water Resources Control Board that facilitate protection of estuaries.

II. JURISDICTION

The Central Coast RWQCB is responsible for a 300-mile long by 40-mile wide section of the State's central coast. Its geographic area encompasses all of Santa Cruz, San Benito, Monterey, San Luis Obispo, and Santa Barbara Counties as well as the southern one-third of Santa Clara County, and small portions of San Mateo, Kern, and Ventura counties.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

• National Pollutant Discharge Elimination System (NPDES) — The RWQCB issues NPDES permits to regulate discharges of waste from point sources to "waters of the United States." "Waters of the United States" are surface waters such as rivers, intermittent streams, dry stream beds, lakes, bays, estuaries, oceans, etc. The permits are authorized by Section 402 of the Clean Water Act and Section 13370 of the Porter-Cologne Water Quality Control Act. The permit content and the issuance process are contained in 40 Code of Federal Regulations Part 122 and Chapter 9 of the California Code of Regulations. RWQCBs are authorized to take a variety of enforcement actions to obtain compliance with an NPDES permit. The U.S. EPA has approved the State's program to regulate discharges of wastewater from point sources to "waters of the United States." The State, through the RWQCBs, issues

the NPDES permits, reviews discharger self-monitoring reports, performs independent compliance checking, and takes enforcement actions as needed. NPDES permits are required to prescribe conditions of discharge which will ensure protection of beneficial uses of the receiving water. The RWQCB uses the Basin Plan, The Ocean Plan (see SWRCB), and water quality control policies adopted by the SWRCB to develop permits for specific types of discharges or uses of wastewater. The RWQCB has issued an NPDES permit for the discharge from the California Men's Colony in the Morro Bay Watershed. The treatment facilities at the California Men's Colony also serve the California National Guard Camp San Luis Obispo, Cuesta College, the San Luis Obispo County Educational Center, and the San Luis Obispo County Operational Facility. The facilities mostly discharge to Chorro Creek and some effluent is used to irrigate fodder crops on nearby lands owned by California State Polytechnic University.

In addition to regulating discharges of wastewater to surface waters, NPDES permits also require municipal sewage treatment systems to conduct pretreatment programs if their design capacity is greater than five million gallons per day. Smaller municipal treatment systems may be required to conduct pretreatment programs if there are significant industrial users of their systems. The pretreatment programs must comply with 40 Code of Federal Regulations Part 403. The purpose of the pretreatment programs is to protect receiving water where the treatment plant discharges and solids disposal areas from incompatible wastes. The municipalities in the Morro Bay Watershed are not required to implement formal pretreatment programs.

The RWQCB also regulates storm water discharges of pollutants from municipal storm water conveyance systems, industrial facilities, and construction sites pursuant to Section 402(p) of the Clean Water Act. The SWRCB issued general permits for storm water discharges from industrial and construction activities. They also developed through there Stormwater Quality Task Force the California Stormwater Best Management Practice Handbooks to present management practices which will help to preserve natural hydrology. In order to be covered by one these general permits, responsible parties must submit a notice of intent to be covered by the permit to the State Board. The notice of intent is an agreement accepting the discharge specifications, monitoring and reporting requirements of the general permits. The RWQCBs track notification and coverage, provide technical assistance, and monitor compliance with these permits. CalTrans and the City of Morro Bay are currently engaged in construction activity covered by permits to discharge storm waters to Chorro Creek in the Morro Bay watershed. The permits require the responsible parties to prepare and implement a storm water pollution prevention plan and submit an annual report regarding water quality and pollution prevention and control efforts.

♦ Water Quality Certification — Pursuant to CWA § 401, the Board must provide water quality certification on applications for CWA § 404 permits for the discharge of dredged or fill material to surface waters of the United States. The Regional Boards review and recommend action to the SWRCB Executive Director on the applications. The Board evaluates the projects for which Section 404 permits are requested to determine whether waters of the State would be impacted by the project. The Board determines whether to waive certification, recommend the SWRCB issue a certification with or without conditions,

or deny water quality certification. RWQCB staff routinely works with project applicants to develop mitigation measures to result in waiving certification. The measures developed generally result in avoiding or minimizing potential water quality impacts.

♦ Waste Discharge Requirements (WDRs)— The Board issues WDRs, in accordance with Section 13263 of the Porter Cologne Water Quality Control Act, to protect beneficial uses of ground and surface water quality from waste discharges. The Board issues the WDRs, reviews self-monitoring reports submitted by the discharger, performs independent compliance checking, and takes necessary enforcement actions (as authorized by the Porter Cologne Water Quality Control Act). The Board may also waive issuance of WDRs pursuant to Section 13269 if the Board determines that such waiver is in the public interest. WDRs can be waived for a specific discharge or types of discharges. A waiver of a WDR is conditional and may be terminated at any time by the Board.

The Board regulates solid waste discharges to land to protect ground water resources with WDRs. WDRs for disposal of waste to land incorporate regulations of the California Code of Regulations, Title 27, the Federal Resource Conservation and Recovery Act, the Toxic Pits Cleanup Act, and State Health Department regulations. Types of land disposal operations being regulated include landfills, surface impoundment's, septage and sludge disposal, mining operations, confined animal facilities, and some oil field exploration and production facilities. In the Morro Bay watershed, waste disposal to land from the following facilities is being regulated with WDRs: PG&E hazardous waste surface impoundment's, the closed Los Osos Landfill (operated by the County of San Luis Obispo), and one closed landfill site operated at California National Guard Camp San Luis Obispo. Regulation of the two landfill sites has indicated that ground waters have been affected by the waste discharges but no prolonged impact to the receiving surface waters adjacent to the landfill sites has been detected.

The Board also may regulate community on-site sewage disposal systems with WDRs. "Community systems" are defined in the Basin Plan as: (1) residential wastewater treatment systems for more than 5 units or more than 5 parcels; or, (2) commercial, institutional or industrial systems to treat sanitary wastewater equal to or greater than 2500 gallons per day (average daily flow). Several schools, mobile home parks, and multi-unit residences in Los Osos are regulated by WDRs for their on-site sewage disposal systems.

Finally, the Board regulates industrial wastewater with WDRs. One site in the Morro Bay watershed falls into this category, Rantec Manufacturing Plant. WDRs for industrial wastewaters generally incorporate standards of performance, pretreatment standards and effluent limitations promulgated by U.S. EPA. pursuant to CWA § 402.

Prohibitions and Prohibition Exemptions — The Board can prohibit specific types of discharges to certain areas under authority of Porter Cologne Water Quality Control Act Section 13243. These discharge prohibitions may be revised, rescinded, or adopted as necessary. Discharge prohibitions are described in the Basin Plan. The community of Los Osos-Baywood Park has been affected by the prohibitions related to individual, alternative, and community sewage disposal systems. Development on small lots resulted in one of the

most densely populated areas without public sewers on the Central Coast. Septic tank effluent is discharged in predominantly sandy soil over a ground water basin which is the sole source of water for the area. Some shallow wells have approached and exceeded the public health maximum nitrate concentration limit. Findings of a Clean Water Grant-funded study of the situation resulted in a Basin Plan Prohibition of discharges effective November 1, 1988. A community sewer system is currently being considered for the area.

Enforcement Actions — The Board is authorized to use a variety of enforcement mechanisms to facilitate remediation of water quality problems and Basin Plan violations. A Notice of Violation is a letter formally advising the discharger that the facility is in noncompliance and that additional enforcement actions may be necessary, if appropriate actions are not taken. The Regional Board may request a technical or monitoring report to facilitate investigation of any situation that may affect water quality pursuant to Section 13267 of the Porter Cologne Water Quality Control Act. A Time Schedule can be issued, pursuant to Section 13300, to specify actions a discharger shall take to correct or prevent violations of requirements for situations in which the Board is reasonably confident that the problem will be corrected. A Cleanup or Abatement order can be issued, pursuant to Section 13304 of the Porter Cologne Water Quality Control Act, to require a discharger to clean up a waste or abate its effects or, in the case of a threatened pollution or nuisance, take other necessary remedial action. Cleanup or Abatement Orders are issued for situations when action is needed to correct a problem caused by regulated or unregulated discharges which are creating or threatening to create a condition of pollution or nuisance. A Cleanup or Abatement Order is also used by the Board to establish the acceptable level of cleanup. A Cease and Desist Order can be issued, pursuant to Section 13301 of the Porter Cologne Water Quality Control Act, to require a discharger to comply with Waste Discharge Requirements or prohibitions according to a time schedule. If the violation is threatening water quality, a Cease and Desist Order can be used to require appropriate remedial or preventative action. A Cease and Desist Order is issued by the Regional Board when violations of requirements or prohibitions are threatened, are occurring, or have occurred and probably will continue in the future. Pursuant to Section 13308, if the Regional Board determines there is a threatened or continuing violation of any order previously issued, the Regional Board may issue an order establishing a time schedule and prescribing a civil penalty due if compliance is not achieved in accordance with that time schedule. Administrative Civil Liabilities (monetary liabilities or fines) may be imposed pursuant to Article 2.5 of the Porter Cologne Water Quality Control Act.

In the Morro Bay watershed, the following enforcement actions have been issued. An administrative civil liability for \$130,000 was issued to the California Men's Colony for falsifying records and for discharge violations. A cease and desist order is currently in effect for corrective actions (including repair of their digester) as a result of the discharge violations. Time schedule order No. 95-90, pursuant to Section 13308, was issued to San Luis Obispo County requiring completion of the community sewer system. This was the first use of this type of enforcement action in the State.

- Department of Defense (DOD) The Regional Board is involved in oversight of investigation and cleanup of water resources impacted or threatened by waste discharges from DOD facilities. A Memorandum of Agreement, signed by the U.S. Department of Defense and State Officials, provides State oversight cost reimbursement. Regional Boards and the Department of Toxic Substances Control share regulatory responsibility and reimbursement dollars allocated to the DOD program. A Memorandum of Understanding exists between the Regional Boards, the SWRCB and the Department of Toxic Substances Control specifying roles and responsibilities in hazardous waste cleanups where overlap may occur. Federal facilities being addressed by this program in the Morro Bay Watershed include California National Guard, Camp San Luis Obispo and San Luis Obispo County, Camp San Luis Obispo. These facilities must cleanup hazardous waste releases pursuant to requirements of the federal Comprehensive, Environmental Response, Compensation, and Liability Act, the Clean Water Act and Porter Cologne Water Quality Control Act. Specifically, the Regional Board oversees groundwater investigations and cleanup activities at these facilities. Some sites/locations at these facilities are at the beginning stages of the CERCLA investigation and cleanup process (hutment heating systems, former firing ranges, a PCB storage area, a former pesticide/herbicide storage area, and several underground storage tank). Results of sites investigations that are farther along indicate that ground water impacts are present beneath and adjacent to the Sutter Avenue Landfill and at nine underground storage tank locations. To date, no impact to surface waters has been documented.
- Spills, Leaks, Investigation and Cleanup (SLIC) Program The Board's staff investigates reports of unauthorized discharges (spills and leaks) of hazardous materials. These discharges can be from old burn dumps, abandoned landfills, solvent spills, pipeline breaks, tanker truck spills, and illegal dumping sites. Information regarding hazardous waste discharge is obtained in the following manner: "Reportable Quantities of Hazardous Waste and Sewage Discharges" have been established by the SWRCB and the Department of Health Services pursuant to Section 13271 of the Porter Cologne Water Quality Control Act and Section 25140 of the Health and Safety Code. The Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65 found in Section 25249 of the Health and Safety Code) requires the Governor to publish a list of chemical known to the State to cause cancer or reproductive toxicity annually. Section 25180 of the Health and Safety Code requires designated governmental employees to disclose information to the local Board of Supervisors and local health officer regarding an illegal discharge of hazardous waste if the discharge is likely to cause substantial injury to the public. Regional Board staff receives complaints of nuisance conditions and reports of spills directly from local agency officials and members of the general public. Proper response to reports of unauthorized discharges and spills includes the following as needed: completion of a spill report form; notification to other responsible agencies, or interested parties; site inspection to determine validity of the report and assess the situation; direct responsible parties to perform preliminary site assessment, pollution characterization, on-going monitoring, and remedial action plan; initiation of enforcement action when needed (letters, cleanup or abatement orders, and/or waste discharge requirements; notification to reporting party of findings and subsequent action, (except in

cases where anonymity is requested); and, establishment of cleanup goals. Recent on-going examples of responses to an unauthorized discharge in the Morro Bay Watershed include several dry cleaners with solvent releases in the City of Morro Bay. Regional Board staff also assists agencies at large-scale hazardous material releases to assess immediate threats. Staff's role is to provide immediate, on-site technical assistance concerning water quality in order to minimize the potential damage to the public health and safety, and the environment.

• Underground Tanks/Above Ground Tanks: — The Regional Board assists with regulation of underground and above ground storage tanks by providing oversight of, investigation and cleanup from leaking tanks. The Health and Safety Code, Chapter 6 and the California Code of Regulations, Title 23, Division 3, Chapters 16 provide Regional Boards and local agencies authority and the requirements for oversight related to underground storage tanks.

The Regional Board typically oversees cases involving impact to surface and ground water while the local agencies oversee impacts to soil. In some cases, the Regional Board oversees both soil and ground water cleanup. The Regional Board carries out investigations and cleanup of leaky tanks in a manner similar to investigations and cleanups in the Spills, Leaks, Investigations, and Cleanup (SLIC) Program mentioned previously. In the Morro Bay Watershed there are four active leaking underground storage tank cases in this program. Three are in the City of Morro Bay, and one in Los Osos.

Above Ground Storage Tanks -- The Regional Board shares oversight responsibilities with DFG. Leaks attributed to above ground storage tanks are reported to Regional Board by tank operators/owners, agencies, and members of the public. Oversight entails investigation of problems and directing remedial actions to protect water quality, similar to UGT and SLIC cases. Within Morro Bay watershed there are two above ground tank sights. They are: 1) Chevron, and 2) Texaco/Estero Bay tank farm (also referred to as Federal Fuel Facility in the USEPA Superfund Program now owned by Texaco). Texaco has had discharges in the past to drainage's flowing into Estero Bay, which potentially have/could impact water quality within the Morro Bay estuary.

♦ Basin Planning: — Federal CWA § 303 and Porter Cologne Water Quality Control Act Section 13050 directs each RWQCB to adopt a water quality control plan (basin plan), defined as having three components: beneficial uses of water bodies which are to be protected, water quality objectives which protect those uses, and an implementation plan which accomplishes those objectives. The current Basin Plan for the Central Coast RWQCB was prepared on September 8, 1994 and includes revisions dated April 14, 1995. The Basin Plan identifies beneficial uses for the Morro Bay Estuary. The Basin Plan also lists both water quality objectives for estuaries and objectives specific to beneficial uses. For example, water contact recreation is an identified beneficial use for the Morro Bay Estuary. Water quality objectives for this beneficial use include pH values and bacteria concentrations in terms of fecal coliform. The Basin Plan describes the RWQCB's implementation plan to protect the beneficial uses and meet the water quality objectives. This includes descriptions of the tools available to the RWQCB under authority of the rules and regulations itemized, as well as plans and policies of the State Water Resources Control Board that facilitate protection of estuaries.

The Basin Plan is a flexible tool which must be reviewed and revised regularly for it to adapt to changing conditions. The federal Clean Water Act (Section 303(c)) requires states to hold public hearings for review of water quality standards at least once every three years (the triennial review process). Water quality standards consist of beneficial use designations and water quality criteria (objectives) necessary to protect those uses. The Porter-Cologne Water Quality Control Act requires the entire Basin Plan to be reviewed periodically. While a major part of the review process consists of identifying potential problems, an important part of the review is the reaffirmation of those portions of the plan where no potential problems are identified.

In preparation for the public hearings, Regional Board staff reviews problems and issues needing revision in the Basin Plan. Staff then prioritizes the areas in need of revision and prepares a draft Basin Plan amendment priority list. Staff solicits public input of the draft Basin Plan amendment priority list.

At the conclusion of the triennial review public hearing, Regional Board staff prepares a final Basin Plan amendment priority list. Placing a potential problem on the priority list will only require the Regional Board staff to investigate the need for an amendment. It does not necessarily mean a revision of the Basin Plan will be made. Detailed workplans of each issue, identifies issues that can be completed within existing resource allocations over a three-year period, and identifies a list of issues requiring additional resources to complete.

Once the triennial review process is complete, Regional Board staff begin investigating the issues in order of rank. After each investigation, staff determines the need for a Basin Plan amendment. Basin Plan amendments can also occur for issues not identified during the triennial.

Basin Plan amendment hearings are advertised in the public notice section of a newspaper circulated in areas affected by the amendment. Persons interested in a particular issue can also notify the Regional Board staff of their interest in being notified of hearings.

Basin Plan amendments do not become effective until approved by the State Board. Surface water standards also require the approval of the Environmental Protection Agency to become effective.

Recommendations made in the Comprehensive Conservation and Management Plan developed for Morro Bay through the National Estuary Program may lead to Basin Plan amendments. Similarly, Total Maximum Daily Loads (TMDL) and associated implementation plans determined for Morro Bay must be incorporated into the Basin Plan through a public hearing process (see TMDL description that follows).

TMDLs — The Regional Board has classified Morro Bay as impaired for metals, pathogens, and siltation through the listing process required by Section 303(d) of the Clean Water Act. Therefore, USEPA expects a TMDL be developed for Morro Bay. The TMDL determines the amount of pollution that can be discharged into the water body and still maintain water quality standards. A TMDL is a way to quantify pollutant loads from point and nonpoint

MB NEP Base Programs Analysis, Vol. I

sources, and can be used to allocate allowable loads in order to meet water quality standards. TMDL development can be labor intensive and costly. Regional Board staff is participating on a task force of Regional Board, SWRCB, and USEPA staff to develop a statewide strategy for TMDL development and funding.

Another important component of the TMDL is the implementation plan. Best management practices will be incorporated into the implementation plan for Morro Bay. The action plans developed by the Morro Bay National Estuary Program may be appropriate to serve, in part or whole, as the implementation plan needed to address the TMDL. TMDLs and implementation plans are incorporated into the Basin Plan through a public hearing process.

B. Resource Management Activities/Programs

- Basin Planning -- The Basin Plan is a flexible tool which must be reviewed and revised regularly for it to adapt to changing conditions. This occurs through on-going planning via the triennial review process.
- Bay Protection and Toxic Cleanup Program (BPTCP) The BPTCP was established by the State legislature in 1989 (Sections 13390-13396 of the Porter Cologne Water Quality Control Act). The BPTCP is a statewide program that is coordinated with the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment. To meet the goals of the BPTCP, the Regional Board is involved in activities to 1) provide protection of present and future beneficial uses of the bays and estuarine waters in the region, 2) identify and characterize toxic hot spots, 3) plan for toxic hot spot cleanup or other remedial or mitigation actions, and 4) develop prevention and control strategies for toxic pollutants that will prevent creation of new toxic hot spots or the perpetuation of existing ones within the bays and estuaries in the region. A current Proposed Regional Toxic Hot Spot Cleanup Plan was developed and drafted by Regional Board Staff in December, 1997.

The Central Coast Regional Board has identified one toxic hot spot to be addressed under this program. Neither this "hot spot" or the two other candidates are in Morro Bay. Cleanup of the toxic hot spot is addressed in the plan dated December, 1997.

♦ Non-point Source Management — The Non-point Source Management Program provides for the control and reduction of non-point source pollution to restore and protect water bodies pursuant to Clean Water Act Section 319 and the Coastal Zone Act Reauthorization Amendments of 1990. The Regional Board implements the State's Non-Point Source Management Plan.

This includes implementing a variety of activities to control nonpoint source pollution from urban runoff; agriculture; land disturbance activities (road construction/maintenance, land construction, timber harvesting, and mining), hydrologic modification, and individual disposal systems. These activities include outreach, education, public participation, technical assistance, finance assistance, interagency coordination, demonstration projects, grant-funded project solicitation, grant-funded project contract management and regulatory activities such as imposing septic tank area prohibitions.

Regional Board staff implements nonpoint source management in the Morro Bay watershed by participating in the Morro Bay National Estuary Program (assessing priority problems, developing action plans to address problems, providing assistance with implementation of action plans, and developing a long term monitoring program to assess water quality improvements associated with the implementation of actions); implementing the Morro Bay National Monitoring Program project to show long-term effectiveness of rangeland management measures; and convening and directing a technical advisory committee to identify sources of bacteria in Morro Bay, implement remedial actions to reduce bacteria levels, and monitor the effectiveness of implementation actions.

Water Quality Assessment — The Regional Boards and the SWRCB have maintained a "water quality assessment" database since 1989. The database contains information on water quality conditions and problems for many of the surface and ground waters of the State. The database is updated every two years. The database software is USEPA's Waterbody System (WBS). Staff uses the updated Regional Board assessments to compile statewide water quality data for it's biennial reports required by Section 305(b) of the Clean Water Act. The 305(b) report generally categorizes water body classifications by degree of support of designated beneficial uses. The WBS also provides capabilities for updating the biennial report required by Section 303(d) of the Clean Water Act. Section 303(d) requires the Regional Board to list waters that are partially or fully impaired (not supporting beneficial uses, hence not meeting water quality standards) and identify priorities for developing Total Maximum Daily Loads (TMDLs). The listing process currently involves the following activities: 1) public participation at the Regional Board level (circulation of draft lists, receipt of written comments, public hearing on the draft lists, approval by the Board); 2) submission of approved Regional Board lists to the SWRCB; 3) submission of the statewide list to the USEPA; and 4) USEPA approval or disapproval of the list. See the following section on TMDLs.

The information used by Regional Boards staff in compiling and revising the "water quality assessment" includes various types of monitoring data and water quality reports.

- Pesticide Management The Regional Board provides technical assistance to and permits
 use by pesticide applicators in accordance with the State Pesticide Management Plan. This
 Plan was written and is implemented by the SWRCB and the Department of Pesticide
 Regulation.
- ♦ CEQA Document Review The Regional Board is a responsible agency under the California Environmental Quality Act. Therefore, the Regional Board reviews documents characterizing environmental impacts of various projects generated by CEQA. The Regional Board provides comments to lead agencies regarding impacts to water quality and proposed mitigation measures described for projects in the documents.
- Regional Monitoring The Regional Board is initiating a program to assess ambient surface and ground water quality conditions. The goals of the program are to characterize the status and trends of the Region's surface, ground, estuarine, and coastal water quality and associated beneficial uses through ambient monitoring, identify localized effects and

probable pollutant sources through focused monitoring, determine whether water quality standards are being met and beneficial uses are being supported, provide scientifically-based water quality information to users in accessible forms to support decision making, and coordinate with other programs to promote an effective and efficient regional monitoring effort. In the Morro Bay Watershed and elsewhere, the program will include periodic watershed scaled assessments of water and habitat quality, ongoing data management activities, and regular sampling of estuarine habitat for indications of upstream degradation or potential offshore impacts.

The Regional Board, in participation with Cal Poly State University, currently implements a paired watershed study in the Morro Bay Watershed as a project of the U.S. EPA National Monitoring Program to evaluate the effectiveness of Best Management Practice systems in improving water quality. The project contributes to the characterization of the sedimentation rate and other water quality conditions in a portion of Chorro Creek (the main tributary to Morro Bay), and evaluates the overall water quality at select sites in the Morro Bay Watershed. The program is designed as a ten-year program, to continue through 2001.

The Regional Board, with support from the National Estuary Program, also conducts storm water sampling in areas that discharge to Morro Bay and bacteria sampling (for the protection of shellfish and recreation) in the Bay through the Shellfish Technical Advisory Committee mandated by the Shellfish Protection Act.

Watershed Management Initiative -- The goals and purpose of the Watershed Management Initiative (WMI) are to achieve water quality standards in all of California's watersheds by supporting the development of local solutions to local problems with the full participation of The State and Regional Boards, in partnership with the U.S. all affected parties. Environmental Protection Agency (USEPA), have agreed to develop and implement an integrated planning process to more effectively and efficiently direct the limited State and federal funds to the highest priority activities. Priorities are based on the strategies that each Regional Board has developed to address the watersheds within its boundaries. Statewide priorities are developed by the State Board with the active participation of the Regional Boards and USEPA. It would allow for closer coordination between agencies, and provide technical and finance support for local stakeholders. The strategies and proposed activities of the State and Regional Boards and the USEPA to implement the WMI will be described in an "Integrated Plan." The "Plan" will consist of chapters from each Regional Board. The priority activities affecting Morro Bay are described in the chapter. These activities consist of and are implemented by Regional Board staff's participation in the NEP, and all other activities/programs described in this section.

C. FINANCE MECHANISMS

- ♦ Clean Water Act § 205(j) Grant Funds The RWQCB assists applicants in getting CWA § 205(j) grants for water quality planning projects. These funds are USEPA continuing program grant funds that are awarded to the State by EPA and are either used in "in-house" or as "pass through" grants by other agencies.
- ♦ Clean Water Act § 319(h) Grant Funds The RWQCB assists applicants in getting CWA § 319(h) grants for nonpoint source control implementation projects. These funds are USEPA continuing program grant funds. They are awarded to the State by USEPA and are used as "pass through" grants by other agencies (and not by RWQCB).
- ♦ Underground Tank Cleanup Fund The RWQCB advises responsible parties cleanup cost may be reimbursable. The SWRCB administers the Underground Tank Cleanup Fund per cleanup, less a deductible (zero to \$10,000 based on tank use and size of business owning/operation the tank). Reimbursable activities are investigation and cleanup ordered by oversight agencies (local agencies or RWQCB).
- ♦ State Revolving Fund -- The RWQCB directs project proponents to this fund. The SWRCB administers this Federal (USEPA) loan program. The program provides low interest loans to address water quality problems associated with discharges from point and nonpoint source dischargers and for estuary enhancement

D. Other Non-Regulatory Programs

♦ Volunteer Monitoring -- RWQCB staff coordinates a volunteer monitoring program (as part of the Regional Board's National Monitoring Program and the NEP Monitoring and Public Participation Plans). The water and habitat quality data collected contributes to characterization of problems in the Morro Bay watershed and evaluation of BMP implementation projects. The NEP (with assistance from U.C. Cooperative Extension) makes water self-monitoring test kits available to ranchers and farmers. These are provided to educate and coordinate with land owners, but do not necessarily provide data that contributes to problem characterization.

Board staff provide public education and technical assistance in both formal and informal situations. Formally, every Board Meeting includes receipt of written public comments prior to hearings and a period of public testimony during the meeting. The meeting agendas often include "information" items to inform the public and the Board members of important issues and programs. Informally, staff respond to numerous information requests by telephone and frequently addend meeting and conferences to provide information and assistance on water quality issues. Ongoing and specific issues currently being addressed include 1) the development of a community sewer system in Los Osos; 2) quality of groundwater in various parts of the region; 3) spill response, soil and groundwater cleanup, and public health issues being handled by local agencies with Regional Board oversight; 4) storm water permit compliance issues; 5) best management practices to control nonpoint source pollution; 6) watershed management planning and implementation; and 7) regional monitoring. These activities are funded with USEPA continuing grant funds under authority of CWA § 104.

♦ Inactive Mine Reclamation/Remediation — The Chorro Creek watershed, one of two creek systems draining to Morro Bay, contains about 30 or 40 inactive chromite mines which operated from about the 1870's through about 1958, the end of the Federal government chromite ore purchase program. The Regional Board, funded partially by a Clean Water Act Section 205 (j) grant, assesses water quality degradation by the mines, characterizes mine related water pollution sources and assists public and private parties with reclamation and remediation of the mines on their land. Currently, no continuous, formal monitoring of the mines and immediate receiving waters is conducted.

IV. ADMINISTRATION

The Central Coast Regional Water Quality Control Board consists of nine part-time members appointed by the Governor for staggered four-year terms. The Regional Board is semi-autonomous from the State Water Resources Control Board. The Regional Board makes water quality decisions for its Region. These decisions can be appealed to the State Board. Members of the Regional Board conduct their business at regular meetings and public hearings at which public participation is encouraged. The agency is divided into six units encompassing five program areas and administrative function that supports the Regional Board staff.

For further information, contact:

Central Coast Regional Water Quality Control Board 81 Higuera St., Suite 200 San Luis Obispo, CA 93401-5427 (805) 542-3147 http://www.

S7. State	e Coasta	l Conser	vancy (S	SCC), R	esourc	es .	Agency
	Priority	problems :		Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy	Reduced	Habitat		(relating to the priority problems)
Scament	Dacteria	Manients	Metals +	Flow	Loss		
√					✓	•	Resource Enhancement (Morro Bay
		,	i				Watershed Sedimentation Study,
						ĺ	Morro Bay Watershed Enhancement
					ļ		Plan (MBWEP), Morro Bay
					j	ł	Watershed Demonstration Projects,
					}		Chorro Flats Acquisition and
				į			Enhancement, Los Osos Creek
						Ì	Conservation Easement Acquisition
<u> </u>						<u> </u>	and Enhancement) (RM)
✓					1	•	Agricultural Preservation (Chorro
				İ	}		Flats Acquisition and Enhancement,
					l		Los Osos Creek Property
	}						Conservation Easement Acquisition
						_	and Enhancement) (RM)
✓				l	✓	•	Public Access (El Morro Elfin Forest
					-		Acquisition and Enhancement, Sweet
l						L	Springs Marsh Enhancement) (RM)
					/	•	Coastal Restoration (Morro Bay
							Kangaroo Rat Habitat Conservation
						<u> </u>	Plan, Los Osos Greenbelt) (RM)
		1				•	Urban Waterfront Restoration (City of
					<u></u>		Morro Bay projects) (RM)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITIES

The SCC, established in 1976, is a State agency that protects and improves coastal resources and helps the public get to and enjoy the coast. The Legislature created the SCC as a unique entity with flexible powers to serve as an intermediary among government, citizens, and the private sector in recognition that creative approaches would be needed to preserve California's coast for future generations. The SCC's non-regulatory, problem-solving approach complements the work of the California Coastal Commission. SCC program authorities include the Public Resources Code (P.R.C.) §§ 31000 et seq.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

II. JURISDICTION

The SCC is authorized to provide technical assistance and grants to nonprofit organizations and state and local public agencies for coastal preservation.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

The SCC works to preserve, improve and restore public access and natural resources along the coast and on San Francisco Bay. It builds trails and walkways, purchases threatened coastal land from willing sellers, enhances and restores wetlands and watersheds, protects open space and farmland, supports commercial fishing, helps cities develop and improve waterfronts, and crafts innovative solutions to land use conflicts. The SCC undertakes projects on its own and in partnership with nonprofit organizations, landowners, local governments, and other public agencies.

A. Regulatory Activities/Programs

♦ This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

Resource Enhancement:

- Morro Bay Watershed Sedimentation Study In 1986, the SCC funded the preparation of a sedimentation study that estimated erosion rates, sediment delivery ratios, and erosion reduction potential throughout the Morro Bay watershed.
- ♦ Morro Bay Watershed Enhancement Plan (MBWEP) In 1987, the SCC, in partnership with the Coastal San Luis Resource Conservation District (RCD) and Natural Resources Conservation Service (NRCS), funded and developed the MBWEP. The MBWEP evaluated alternatives to reduce sedimentation in Morro Bay, and recommended a three-phased approach to implementation. The three phases include (1) construction of a series of best management practices demonstration projects on properties throughout the watershed, (2) implementation of a floodplain restoration project on the Chorro Creek drainage, and (3) implementation of a complementary floodplain restoration project on the Los Osos Creek drainage.
- Morro Bay Watershed Demonstration Projects The SCC provided a grant of \$410,000 to the Coastal San Luis RCD to implement the first phase of the MBWEP, best management practices demonstration projects. Twenty projects were funded through this program. The projects include installation of fencing, stream bank revegetation, development of new water sources for cattle and other measures designed to reduce sedimentation into Morro Bay.

Agricultural Preservation:

- ♦ Chorro Flats Acquisition and Enhancement In 1990, the SCC negotiated the acquisition of the Chorro Flats property from a private landowner and provided a \$1,400,000 grant (\$800,000 from a grant the SCC had received from Caltrans and \$600,000 of SCC funds) to the Coastal San Luis RCD to acquire the property. The SCC also provided \$200,000 for final planning for this project site to convert an existing 129-acre agricultural field to natural floodplain (retaining about 40 acres in agricultural production), and a \$500,000 grant for project implementation (\$300,000 from a grant the SCC had received from Caltrans and \$200,000 of SCC funds). This project will provide a sediment deposition area above the Bay, and will restore riparian habitat.
- ◆ Los Osos Creek Property Conservation Easement Acquisition and Enhancement The SCC, working in conjunction with the NRCS and RCD, purchased a wetlands conservation easement over approximately 111 acres of former agricultural property at the confluence of Los Osos, Warden and Turri Road Creeks. At the same time, the SCC purchased an agricultural conservation easement on 33 acres of cropland that will remain in agricultural production. Wetland habitat has been restored in the wetland easement area, and serves as a passive sediment trap.

Public Access:

- ♦ El Morro Elfin Forest Acquisition and Enhancement The SCC provided \$200,000 toward this \$1,200,000 acquisition and helped negotiate the purchase from a private land owner. The Small Wilderness Area Program (SWAP) was a partner in this project.
- Sweet Springs Marsh Enhancement The SCC negotiated the transaction that resulted in the donation of the wetlands and some upland habitat by the property owner to the Audubon Society, with the owner retaining less than an acre for construction of two houses. The SCC also provided a grant to the Audubon Society to undertake wetland and upland habitat restoration, trail improvements and interpretive signage.

Coastal Restoration:

- ◆ Los Osos Greenbelt Plan The SCC provided a \$100,000 grant to the Land Conservancy of San Luis Obispo to prepare a greenbelt plan to protect important natural resource and scenic areas and endangered species habitats within and adjacent to the Los Osos/Baywood communities. As of October, 1997, a draft plan has been completed. The plan recommends a variety of measures by which property can be protected including those that would not require outright public acquisition.
- Morro Bay Kangaroo Rat Habitat Conservation Plan The SCC provided a \$25,000 grant to the County of San Luis Obispo to prepare a Habitat Conservation Plan to protect the endangered Morro Bay Kangaroo Rat. A draft plan was completed but was not adopted by the County because no funds were available from resource agencies to implement the plan.

Urban Water Front Restoration:

- City of Morro Bay Projects The SCC has provided the following funds to the City of Morro Bay:
 - approximately \$175,000 to improve the street ends along the waterfront for public access purposes;
 - approximately \$245,000 to construct the Morro Bay T-Pier for commercial fishing purposes and public access;
 - \$200,000 to construct access improvements along the central waterfront, including a public restroom;
 - \$200,000 to construct improvements to Tidelands Park.

C. Finance Mechanisms

• The SCC can undertake projects directly, or provide grants or loans to local and state public agencies, and nonprofit organizations. Grants or loans can be used to acquire land, to implement enhancement projects, to install public accessways, to preserve coastal agriculture, and to rejuvenate urban waterfronts.

D. Other Non-Regulatory Programs

- ♦ The SCC works with local partners to provide incentive programs for coastal protection. The Morro Bay Watershed Demonstration Projects Program with the Coastal San Luis RCD is one example of the type of incentive program in which the SCC participates. In that example, the SCC provided 90% of the implementation cost for each demonstration project, and the landowner was required to contribute 10%, and maintain the project for a 10-year period. Additionally, the SCC acquires property only from willing sellers and can negotiate bargains sales which allow the property owner to claim certain tax deductions.
- ♦ General technical assistance/workshops The SCC provides technical assistance to project partners in order to implement the agency's mission. This assistance includes staff expertise in project management, fundraising and coastal issues, as well as technical consultants retained by the SCC in such areas as biology and hydrology. In addition, the SCC periodically hosts or contributes to workshops on specific issues related to coastal protection (i.e., funding opportunities, wetland protection, watershed planning, and nonprofit operations).
- ♦ Coast & Ocean The SCC publishes a quarterly magazine, Coast & Ocean, which provides education and outreach to members of the public interested in coastal issues.
- The SCC participates in natural resource enhancement and watershed plans in order to identify and design specific enhancement projects.

IV. ADMINISTRATION

The Coastal Conservancy has a staff of 46, led by an Executive Director. A seven-member Board approves Conservancy projects and funding authorizations. Board members include the Secretary of the Resources Agency, the Director of Finance, the Coastal Commission Chairperson, and four public members - two appointed by the Governor, one by the Senate Rules Committee, and one by the Speaker of the Assembly. In addition, the Conservancy has a six-member legislative oversight committee.

For further information, contact:

State Coastal Conservancy
1330 Broadway, 11th Floor Attn: Carol Arnold
Oakland, CA 94612
(510) 286-1015
http://www.coastalconservancy.ca.gov

	Priority	problems a		Key programs/activities/etc.		
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
					√	State Lands Leases (R)
					✓.	• State Lands Dredging Permit (R)
					1	Granted Lands (R)
			√			Hazard Removal (RM)
			√			Derelict Vessels (RM)
			✓			 Contingency Plans (RM)
					1	• EIR's (NR)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITIES

SLC's mission is to optimize the use of sovereign lands under its jurisdiction. These Stateowned areas include tidelands and offshore areas, navigable rivers, and wetlands. The SLC issues permits and/or leases for activities such as marina operations, offshore oil and gas operations, and shoreline protection structure development on State lands. SLC program authorities include: California Public Resources Code, Division 6, Submerged Lands Act, Kapiloff Land Bank Act, and the Public Trust Doctrine.

II. JURISDICTION

When California became a state in 1850, it acquired nearly 4 million acres of land underlying the State's navigable and tidal waterways. These lands, known as "Sovereign Lands", included the beds of 1) more than 120 rivers, streams and sloughs; 2) nearly 40 non-tidal navigable lakes; 3) the tidal navigable bays and lagoons; and 4) the tide and submerged lands adjacent to the entire coast and offshore islands of the State from the mean high tide line to three nautical miles offshore. These "Sovereign Lands" are held by the State in Public Trust for public purposes consistent with the provisions of the Public Trust such as fishing, water dependent commerce and navigation, ecological preservation and scientific study.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

State Lands Leases:-- Public and private entities must acquire a lease for development, such as a marina, along navigable rivers, natural lakes, and bays. If a private individual wishes to

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations '

[➤] Habitat Loss = adverse impacts to wildlife habitat

construct a recreational pier adjacent to their waterfront residence, they must obtain a lease.

- State Lands Dredging Permit For work in harbors and waterways both public and private parties must obtain a dredging permit unless the dredged material is to be used for a commercial purpose, then only a royalty is charged.
- Other Permits/Leases State Lands Commission may require a permit for development on Public Trust lands including marinas, industrial wharves, tanker anchorage's, harvesting of timber, grazing, mining, oil and gas and geothermal development.
- ♦ Granted Lands These lands are monitored by the Commission to ensure compliance with the terms of the statutory grant. These grants encourage development of tidelands consistent with the public trust, while requiring grantees to re-invest revenues produced from the lands back into the lands where they are generated.

B. Resource Management Activities/Programs

- ♦ Hazard Removal To assure public health and safety on beach areas and water ways under its jurisdiction, the Commission has developed an aggressive effort to remove man-made structures which may be hazardous to public health and safety which include remnants of piers, groins and abandoned oil and gas related structures.
- Derelict Vessels Within the Morro Bay Estuary, one of the most pressing issues regarding water quality is the illegal mooring of live-aboard vessels. Sewage dumping from these vessels impacts water quality as well as local oyster leases. The SLC has worked closely with Fish and Wildlife Services to get the polluters out of the bay and return elevated bacterial levels to normal. Another water quality issue arises from derelict vessels that have simply been abandoned in the bay. Work is currently underway to properly dispose of these aging vessels.
- ♦ Contingency Plans SLC provides input to the State Oil Spill Contingency Plan developed and administered by DFG and OSPR.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

◆ Environmental Impact Reports (EIR's) — The Commission staff often prepare EIR's for land use changes within its jurisdiction, routinely comments on EIR's for projects that affect the State's lands, and reviews permit applications submitted to the California Coastal Commission, and the U.S. Army Corps of Engineers.

IV. ADMINISTRATION

The State Controller, the Lieutenant Governor, and the State Director of Finance serve as exofficio members of the California State Lands Commission. The first two are statewide elected

MB NEP Base Programs Analysis, Vol. I

officials while the last is a cabinet level officer appointed by the Governor. The Commission is assisted by a staff of more than 200 specialists in mineral resources, land management, boundary determination, petroleum engineering and the natural sciences. The staff is supervised by an Executive Officer appointed by the Commission.

For further information, contact:

State Lands Commission 100 Howe Avenue, Suite 100 Sacramento, CA 95825 (916) 574-1900 http://www.slc.ca.gov

S9. State	Water l	Resource	s Contro	ol Board	(SWR	CB), Cal/EPA
	Priority	problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
1	1	V	\		/	 Total Maximum Daily Loads (TMDLs) (R)
1	1	√	\		1	 Regulatory Program Support and Coordination (R)
1	✓ .	✓ .	✓	√	1	Basin Planning Program (R)
√	✓	✓	√		1	State Water Quality Standards (R)
						Ocean Standards Program (R)
						 Freshwater and Estuarine Standards (R)
1	1	1	• •		1	 Quality Assurance (QA) Program (R)
1	1	1	1	1	√	Nonpoint Source Program (R)
				√		Water Rights (R)
			1			 Department Of Defense Facilities (R)
			1			 Underground Storage Tanks (R)
1	1	√	1	1	1	 Watershed Management Initiative (RM)
1	1	1	√			 Water Quality Planning Program [205(j)/604(b)] (RM)
					1	Bay Protection and Toxic Cleanup Program (RM)
1	1	1	1	1	1	Monitoring and Assessment Activities (RM)
						 State Mussel Watch Program (RM)
						Toxic Substances Monitoring Program (RM)
						Water Quality Assessment (RM)
√	1	1	1	1	1	Nonpoint Source Pollution (NPS) Program (RM)
1	1	1	1		1	Coastal Nonpoint Pollution Control Program (RM)
			1		1	Pesticide Management (RM)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations

> Heavy Metals + = increased heavy metal/toxin concentrations

> Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

I. MISSION AND AUTHORITIES

The SWRCB's mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations. SWRCB program authorities include the California Water Code (C.W.C.) §§ 3000 et seq. (the Porter Cologne Water Quality Control Act of 1969); the Health and Safety Code, Division 20, chapter 6.67; the California Code of Regulations (Title 27, Division 2); and the Federal Clean Water Act (CWA).

II. JURISDICTION

The State Water Resources Control Board is responsible for all waters of the State of California. The mandates of the Board are administered in nine regions of the State divided by major watershed or hydrologic units.

III. FUNCTIONS (regulatory, resource management, finance, non-regulatory)

The SWRCB is responsible for implementing the Clean Water Act in California, including issuing discharge permits, operating the grants program, and setting water quality standards.

A. Regulatory Activities/Programs

◆ Total Maximum Daily Loads (TMDLs) -- The Federal Clean Water Act requires States to develop lists of waters that do not meet water quality standards, to implement a planning process known as Total Maximum Daily Loads (TMDLs) to address the listed waters and to include the products of the TMDL process in Basin Plans (Section 303(d)). The TMDL process is a determination of the amount of individual pollutants that can be allowed in each water body without exceeding standards and an allocation of responsibility for managing those amounts of pollution. California's Porter Cologne Water Quality Control Act requires that a program of implementation be included in any Basin Plan amendment that establishes water quality standards (Section 13242). TMDLs will often either include a standards action or interpret a standard and therefore, will require implementation programs to be specified as part of the Basin Plan amendments.

The Division of Water Quality includes a full time TMDL Coordinator to directly support the Regional Board's TMDL activities and to ensure TMDLs are developed through a watershed management approach. In general, this position serves to foster communication about TMDLs and Watershed Management, assist with polity development, facilitate development and adoption of TMDLs, and assist with programmatic function such as budget development.

♦ Regulatory Program Support and Coordination -- The Division of Water quality provides Statewide program management for the following regulatory programs: NPDES including Pretreatment Activities, NPDES Storm Water, Non-Chapter 15 WDR and provides administrative and technical support for the regulatory programs for both the RWQCBs and

the SWRCB. The programs are authorized by the Porter Cologne Water Quality Control Act and the Clean Water Act.

- Basin Planning Program The SWRCB directed each RWQCB to adopt a water quality control plan (basin plan) pursuant to CWA § 303 and Porter Cologne Water Quality Control Act Section 13050. The Basin Plans incorporate SWRCB plans and policies including the Thermal Plan, Bays and Estuaries Policy, Power Plant Cooling Policy, Nonpoint Source Management Plan, and the Ocean Plan. Basin Plans are flexible tools which must be reviewed and revised regularly to adapt to changing conditions. Clean Water Act Section 303(c) requires states to hold public hearings for review of water quality standards included in the basin plans at least once every three years (the triennial review process). The Porter-Cologne Water Quality Control Act requires each entire Basin Plan to be reviewed periodically. While a major part of the review process consists of identifying potential problems, an important part of the review is the reaffirmation of those portions of the plan where no potential problems are identified. Basin Plan amendments developed by the Regional Boards during the triennial review must be approved by the SWRCB. Basin Plan amendments can also occur for issues not identified during the triennial review such as amendments for urgent issues needed to reflect new legislation. The SWRCB is also involved in "continuing planning" to consider development of additional plans, policies, and programs to support water quality control throughout the State.
- ♦ State Water Quality Standards Section 303 of the Clean Water Act requires the SWRCB to set water quality standards and submit them to USEPA for approval. Standards are set taking into consideration the beneficial uses of the water body and the water quality criteria necessary to support the uses. The SWRCB must consider the following minimum beneficial uses: public water supply, propagation of fish, shellfish and wildlife and for recreational, agricultural, industrial, and navigational purposes. Additionally, the SWRCB develops and enforces anti-degradation provisions to meet water quality standards and to prevent degradation of water quality (Resolution 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California"). The SWRCB conducts public hearings to review water quality standards at least once every three (3) years and revise them if needed. After the Board adopts the standards, the standards are submitted to the USEPA Administrator for review and approval.
 - Ocean Standards Program: The primary function of the Ocean Standards Program (Program) is the maintenance, review, and Proposal of changes (amendments) to the California Ocean Plan(Ocean Plan). In its role of interpreting the Ocean Plan, the Program also provides technical support and recommendations to staff of the RWQCBs on issues related to ocean water quality and issuance of Waste Discharge Requirements to ocean dischargers. The Ocean Plan in mandated under Section 13170.2 of the Porter-Cologne Water quality Control Act (Act) which requires:
 - 1. The SWRCB formulate and adopt a water quality control plan for ocean waters of the State known as the California Ocean Plan, and
 - 2. That the Ocean Plan shall be reviewed at least every three years to guarantee that the

current standards are adequate and are not allowing degradation to indigenous marine species or posing a threat to human health.

The Ocean Plan sets physical, chemical, biological, and bacteriological standards for protection of beneficial uses of the State's ocean water. These standards form the basis for preparing NPDES Permits and Waste Discharge Requirements issued by the RWQCBs to ocean dischargers.

Near-coastal waters are the downstream recipient of flow from most of California's watersheds. As such, upstream activities must not adversely affect downstream near coastal waters. Under 40 CFR 131.10(b), the State is required, when designating beneficial uses of a water body and the appropriate water quality objectives for those uses, to consider downstream water quality standards and to ensure that the upstream standards provide for attainment and maintenance of the downstream standards.

• Freshwater and Estuarine Standards -- The primary function of the Freshwater Standards Unit (unit) is the development and review of the California Enclosed Bays and Estuaries Plan (EBEP) and the California Inland Surface Waters Plan (ISWP). These two statewide water quality control plans establish water quality standards for toxic pollutants to protect beneficial uses of the non-ocean surface waters of the State. In addition, the Unit provides technical support to RWQCB staff and other SWRCB units on issues related to estuarine and fresh water quality implementation of water quality standards.

The EBEP is mandated under Section 13391 of the Porter-Cologne Water Quality Control Act (Act). Specifically, this section requires that the SWRCB formulate, adopt, implement, review, and update a water quality control plan for enclosed bays and estuaries. Section 13390 of the Act expresses the legislative intent that the SWRCB and RWQCBs establish programs to: provide maximum protection for existing and future beneficial uses of bay and estuarine waters were toxic pollutants threaten the protection and propagation of aquatic life; and develop effective strategies to control toxic pollutants.

In addition, Section 13170 of the Porter-Cologne Act authorized the SWRCB to adopt Water Quality Control Plans for waters for which water quality standards are required by the Federal Clean Water Act (CWA). Under Section 303(c)(2)(B), amended to the CWA in 1987, states are required to adopt water quality criteria, sufficient to support beneficial uses, for the Section 307(a) priority pollutants for which the U.S. EPA has published criteria under Section 304 (a), is the discharge or presence of these toxic pollutants could reasonably be expected to interfere with the uses of the affected waters. The EBEP and the ISWP are appropriate vehicles in which to comply with requirements of both State and Federal law.

• Quality Assurance (QA) Program -- Quality assurance activities are mandated by Federal regulation (40CFR, Part 205(j)) for all federally funded water quality studies and compliance monitoring that generate environmental laboratory data. The SWRCB has extended these federally required activities to all SWRCB and RWQCB studies involving collection and

analysis of environmental samples. The QA Program provides technical information and expert review of data quality issues relative to the generation and use of environmental data. The Program reviews Quality Assurance Project Plans submitted by Project Managers and provides expert opinions on the resultant data generated by the project. The Program also assists RWQCB staff with their reviews of compliance monitoring data and any investigations into the causes of anomalous values.

The QA Program provides data review assistance and environmental laboratory expertise to RWQCB staff reviewing data and provides staff with training programs. Additionally, the QA Program maintains two contracts relative to quality assurance resources. One is the Statistical Laboratory Contract with U.C. Davis and the other is the Reverence Laboratory Contract with Department of Health Services.

♦ Nonpoint Source Program -- The Division of Water Quality's Nonpoint Source Program is responsible for statewide program management, and for providing administrative and technical support for the NPS program for both the RWQCBs and SWRCB.

The two primary federal statutes that establish a framework for addressing NPS pollution are CWA Section 319 and CZARA Section 6217. State Authority comes from the Porter-Cologne Water Quality Act.

Components of the Nonpoint Source Program relevant to Morro Bay include:

- Pursuant to CZARA, the "Action Plan" entails a Management Measure Review and development of a 5-year Implementation Strategy and a 15-year Implementation Plan. RWQCB staff will incorporate CZARA requirements into all other nonpoint source aspects of their work, including education and outreach to local communities.
- Pursuant to CWA Section 401, The RWQCB staff review the applications for compliance with State water quality standards. If the RWQCB determines that the project will not violate State Water quality standards, the RWQCB may indicate through waiver of waste discharge requirements the State's intention not to take further action on the CWA Section 401 certification application.
- Pursuant to the Wetlands Program, RWQCB staff are supported through finance incentives to wetland watershed activities through wetlands grants, and by participating with the RWQCBs on regional wetland planning efforts.
- The State Revolving Fund program supports the RWQCB watershed activities by providing a finance incentive to watershed activities that previously did not have such and incentive. Through close coordination with watershed planning efforts, the SRF can now be used to fund the highest priority watershed activities.

MB NEP Base Programs Analysis, Vol. I

- Pesticide control, implemented through the Management Agency agreement with the Department of Pesticide Regulation (DPR), supports the Regional Boards on both the scientific analysis of and voluntary resolution of pesticide impacts.
- The SWRCB assists with volunteer monitoring by forming regional networks were RWQCBs lack staff resources to perform this activity.
- SWRCB provides direct assistance to staff working on abandoned mines statewide.
 Activities include site investigation, water quality monitoring, ownership determinations, etc. They also provide direct assistance to RWQCB watershed initiatives where mine pollution is an issue.
- ♦ Water Rights --- Pursuant to Cal Water Code § 102 and 33 Cal.2d 419, the SWRCB has the responsibility of reconciling the administration of water rights. Applicants come to the State for permission to dam, store, divert, and use public stream resources. In 1983, the State Supreme Court declared that the State's waters are subject to a public trust and that the State, as trustee, has a duty to preserve this trust property from harmful diversions by water rights holders. Currently in the Morro Bay watershed, California National Guard holds water rights to Chorro Creek and Chorro Reservoir.
- ♦ Department of Defense (DOD) Facilities -- The SWRCB provides program management and administration to the Regional Boards for regulation of DOD facilities. A Memorandum of Understanding exists between the Regional Boards, the SWRCB and the Department of Toxic Substances Control specifying roles and responsibilities in hazardous waste cleanups at DOD facilities where overlap may occur. A Memorandum of Agreement, signed by the U.S. Department of Defense and State Officials, provides State oversight cost reimbursement. Regional Boards and the Department of Toxic Substances Control share regulatory responsibility and reimbursement dollars allocated to the DOD program.
- ♦ Underground Petroleum Storage Tanks The SWRCB administers the activities conducted by the Regional Boards to assist with regulation of underground storage tanks by tracking tank cases and closures and developing guidance and policies related to managing underground storage tanks. The SWRCB also manages the Underground Petroleum Storage Tank Cleanup fund (see description under Finance Mechanisms). The Health and Safety Code, Chapter 6 and the California Code of Regulations, Title 23, Division 3, Chapters 15 18 provides the SWRCB, Regional Boards and local agencies authority and the requirements for oversight related to underground storage tanks.

B. Resource Management Activities/Programs

• Watershed Management Initiative — The goals and purpose of the Watershed Management Initiative (WMI) are to achieve water quality standards in all of California's watersheds by supporting the development of local solutions to local problems with the full participation of all affected parties. The State and Regional Boards, in partnership with the U.S. Environmental Protection Agency (USEPA), have agreed to develop and implement an integrated planning process to more effectively and efficiently direct the limited State and federal funds to the highest priority activities. Priorities are based on the strategies that each Regional Board has developed to address the watersheds within its boundaries. Statewide priorities are developed by the State Board with the active participation of the Regional Boards and USEPA. It would allow for closer coordination between agencies, and provide technical and finance support for local stakeholders. The strategies and proposed activities of the State and Regional Boards and the USEPA to implement the WMI will be described in an "Integrated Plan." The "Plan" will consist of chapters from each Regional Board, and the State Board. The priority activities affecting Morro Bay are described in the chapter. These activities consist of and are implemented by Regional Board staff's participation in the NEP, and all other activities/programs described in this section.

♦ Water Quality Planning Program [205(j)/604(b)] -- Sections 205(j)(2) and 604(b) of the federal Clean Water Act (CWA) authorize the set-aside of a portion of the CWA's annual State Revolving fund appropriation to assist states and local governments with water quality planning. The CWA requires that at least 40% of these planning funds be passed through to "regional comprehensive planning organizations," generally meaning local (not state government) public entities. Use of these funds are limited by law to water quality planning activities, including monitoring work.

In accordance with guidance from U.S. EPA and the State Board's Watershed Management Initiative committee, a significant proportion of the available 205(j) funds have been awarded for the purpose of preparing local Watershed Management Plans. Typical recipients of these funds have been Resource Conservation Districts and other local agencies who have indicated a commitment to broad-based watershed planning, and the program has required that the plan's development be a cooperative venture with full stakeholder involvement.

These projects are assured of targeting watersheds designated as high priority by the RWQCBs, as each RWQCB consults with prospective applicants before submittal of project proposals, and determines the regional tanking of projects proposed within its region.

- ♦ Bay Protection and Toxic Cleanup Program The SWRCB established the Bay Protection and Toxic Cleanup Program in response to legislation enacted in 1989 (Chapter 269; Senate Bill 475 Torres) which added Chapter 5.6, Sections 13390 through 13396, to the California Porter-Cologne Water Quality Control Act. The Bay Protection and Toxic Cleanup Program is a statewide program to identify toxic hot spots in surface water. The program is coordinated with the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment. To meet the goals of the BPTCP, the SWRCB develops and reviews the Program's goals and activities as needed, administers the Program, and coordinates the program activities of the nine Regional Boards.
- ♦ Monitoring and Assessment Activities The Monitoring and Assessment activities provide information to the State and Regional Boards, the public, and the U.S. EPA on the state of the state's waters. The program administers three of the most widely relied upon water quality monitoring programs used by Regional Boards to identify impaired waterbodies and the

causes of impairment: Toxic Substances Monitoring Program (TSMP), State Mussel Watch Program (SMWP), and Toxicity Testing Program (TTP). Activities of the Program include compiling water quality monitoring and assessment data for fresh, estuarine, ocean, and ground waters, as well as a yearly beach closures report to the legislature. The Program provides technical assistance to Regional Boards, other agencies, local groups and other Division Programs for watershed monitoring and assessment. Assistance includes study design, coordination among participants, field monitoring, reporting, and project evaluation.

The WMI states that the key to watershed management is the identification of problem substances and practices and identification of where they are creating problems in the watershed. TSMP, SMWP, and TTP are used by Regional Boards to identify impaired waterbodies and the substance or action causing the impairment as a basis for listing a waterbody on the 303(d) list of impaired waterbodies.

- ♦ State Mussel Watch Program SWRCB administers this water quality monitoring program. Mussels are collected along the California coastline, including in Morro Bay, and are analyzed for various toxic pollutants (e.g., organic compounds and metals). DFG conducts all the sampling and analysis for this SWRCB program. Results are reported to the SWRCB on an annual basis.
- ◆ Take of Fish and Wildlife -- The State Water Resources Control Board (SWRCB) must notify DFG of all applications to appropriate water. DFG then must recommend the amount of water, if any, required to preserve and enhance fish and wildlife.
- ◆ Toxic Substances Monitoring Program SWRCB administers this water quality monitoring program which is closely linked to the State Mussel Watch Program. This program investigates levels of toxins in fish, including some collected from the Morro Bay watershed. DFG conducts all the sampling and analysis for this SWRCB program.
- Water Quality Assessment -- The SWRCB, along with the Regional Boards, has maintained a "water quality assessment" database since 1989. The database contains information on water quality conditions and problems for many of the surface and ground waters of the State. The current database software is USEPA's Waterbody System (WBS). The SWRCB uses Regional Board assessments to compile statewide water quality data for it's biennial reports required by Section 305(b) of the Clean Water Act. The SWRCB also uses information in the Water quality Assessment to prioritize proposals affecting specific water bodies. The 305(b) report generally categorizes water body classifications by degree of support of designated beneficial uses. The WBS also provides capabilities for updating the biennial report required by Section 303(d) of the Clean Water Act. The SWRCB must approve or disapprove the lists of impaired waters submitted by Regional Boards and submit approved lists to USEPA, pursuant to Section 303(d).
- Nonpoint Source Pollution (NPS) Program The SWRCB implements and administers the State's NPS Program. The California NPS Management Plan outlines a three-tiered approach for managing NPS pollution: Tier 1, Voluntary Implementation of Best Management Practices, Tier 2, Regulatory-Based Encouragement of Best Management Practices, Tier 3, Effluent Limitations. SWRCB staff are involved in the following activities

as part of this approach: (1) information clearing house, (2) technical assistance and evaluation, (3) finance assistance, (4) education and training, (5) coordination of government and private sector watershed management efforts, and (6) pilot watershed projects. The Nonpoint Source Pollution Program also includes efforts in the areas of monitoring and assessment, planning and standards, onsite disposal systems, pesticide management, grazing, boating and marinas, urban runoff, and hydromodification.

- ♦ Coastal Nonpoint Pollution Control Program An "action plan" has been developed to assist the SWRCB in complying with CZARA requirements and to improve the Nonpoint Source Program. The "plan" includes identification of management measures and authorities; existing programs, strategies, and implementation plans; and existing BMPs and BMP guidance. Incremental implementation of the management measures will occur through prioritization and targeting by the SWRCB based on coastal waters focus; 303 (d) listed waters; management measures; and opportunities to build off of existing programs.
- ♦ Pesticide Management The California Water Code states that with USEPA continuing program grant funds under CWA § 104 (b)(3), the State and Regional Boards are the principal state agencies with primary responsibility for the coordination and control of activities related to water quality issues from pesticide use. The California Pesticide Management Plan, written by the SWRCB and the Department of Pesticide Regulation, contains provisions for outreach programs, compliance with water quality standards, ground and surface water protection programs, self-regulatory and regulatory compliance, interagency communication, and dispute and conflict resolution. The SWRCB is involved in various activities described in the Plan and oversees Regional Board activities implementing the Plan. A representative from the SWRCB participates in the Pesticide Registration and Evaluation Committee administered by DPR. The committee reviews, reevaluates and proposes pesticide regulations.

C. Finance Mechanisms

- State Revolving Fund -- The SWRCB administers this Federal (USEPA) loan program. The program provides low interest loans to address water quality problems associated with discharges from point and nonpoint source dischargers and for estuary enhancement. Municipalities are eligible for these loans to address point source discharges, while both public and private entities are eligible for these loans to address nonpoint source discharges. The SWRCB solicits and prioritizes projects, reviews proposals for applicability, develops contracts, assures compliance with State and Federal requirements, and issues progress payments and collects repayments.
- ♦ Clean Water Act § 205(j) Grant Funds The SWRCB, with support from the Regional Boards, administers grant project proposal solicitation, proposal evaluation and selection, grant awards, and contract development and management of CWA § 205(j) grants for water quality planning projects. These USEPA Continuing Program Grant funds are awarded to the State annually.

- ♦ Clean Water Act § 319(h) Grant Funds The SWRCB, with support from the Regional Boards, administers grant project proposal solicitation, proposal evaluation and selection, grant awards, and contract development and management of CWA § 205(j) grants for water quality planning projects. These USEPA Continuing Program Grant funds are awarded to the State annually.
- ♦ Underground Petroleum Storage Tanks The SWRCB administers the Underground Petroleum Storage Tank Cleanup fund. The money for the fund is generated by a fee paid for each gallon of petroleum delivered to tanks. Owners and operators of tanks may draw upon the fund after paying for the initial \$10,000 in cleanup costs. The fund will pay up to \$990,000 per cleanup.

D. Other Non-Regulatory Programs

♦ California Stormwater Best Management Practice Handbooks -- Developed by the SWRCB's advisory Stormwater Quality Task Force, these handbooks present management practices which wold help to preserve natural hydrology.

IV. ADMINISTRATION

The State Water Resources Control Board is comprised of five full-time, appointed voting members. The agency is divided into four divisions encompassing three program areas and an administration function that supports the State Board, as well as the nine Regional Boards. Additionally, the State Board has a number of offices: The Executive Office, the Office of Chief Counsel, Office of Legislative and Public Affairs, Affirmative Action Office, and the Office of Statewide Consistency.

For further information, contact:

State Water Resources Control Board 901 P Street Sacramento, CA 95814 (916) 657-2390 http://www.swrcb.ca.gov

Secondary Agencies:

S10. California Conservation Corps, Resources Agency										
	Priority	y problems	addresse	d (√) *		Key programs/activities/etc.				
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)				
]						(✓ if any agency activities apply)				
1	✓	✓	✓	✓	✓ .	 Labor Force (RM) 				
✓	✓	√	✓.	✓	✓	Emergency Response (RM)				
✓	✓	✓	✓	✓	✓	Environmental Education (NR)				

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITY / II. JURISDICTION

The California Conservation Corps has a dual mission: employment and development of youth and the protection and enhancement of the states natural resources. CCC crews tackle natural resource work in both urban and rural areas, providing sources related to wilderness preservation, planing trees, cutting trails, or clearing streams. Project work performed by the CCC must meet three basic criteria: 1) have environmental or natural resource benefits, 2) provide public benefits and or use, 3) give Corp members an opportunity for on the job training and provide basic skills...

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

Regulatory Activities/Programs

The CCC has no regulatory authority.

Resource Management Activities/Programs В.

Resource management projects/programs/activities related to estuarine protection:

- CCC provides labor force for all agencies in conducting various Natural Resource Management/Protection Projects, including mitigation, erosion control, reforestation, riparian projects, fencing, etc.
- Corpsmembers respond to emergencies such as fires and oil spills, and have special training that includes HAZWOPER, flood fighting, and fire fighting certification.
- Facilities-CCC has a residential camp located within the watershed at Camp San Luis Obispo. The Camp includes a Greenhouse Program, meeting rooms, and base operations for the CCC.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

[➤] Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

C. Other Non-Regulatory Programs

- ♦ Community Service: The CCC requires each Corpsmember to complete forty hours of Community Service each year.
- ♦ The CCC is affiliated with the Americorps and Cadre Programs. These Programs organize and implement volunteer projects for the community.
- ♦ Americorps: Provides Environmental Education to Alternative High Schools
- ♦ Flood Fighting Demos: The CCC provides flood Fighting Demonstrations to the public.
- ♦ Public Education Presentations: The CCC provides environmental education presentations to high schools. Along with California Integrated waste Management Program the CCC has developed a Use Oil Recycling awareness presentation that has been delivered in most of California's high schools. These programs can also be given at general community events.

IV. ADMINISTRATION

The Central Coast CCC operates out of its San Luis Obispo facility. The district has a corp member advisory board that provides input on various program issues related to the area.

For further information, contact:

California Conservation Corps
Central Coast Service District
Camp San Luis Obispo Bldg. 1530
P.O. Box 1380
San Luis Obispo, CA 93406
(805) 549-3561

California Conservation Corps 1719 24th Street Sacramento, CA 95816-7114 (916) 341-3100 http://www.ccc.ca.gov

	Priorit	y problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
	1		/			Solid Waste Facility Permits (R)
			✓			• Waste Tire Facilities Permits (R)
	1		1			Diversion, Planning, and Local Assistance (RM)
	1		1			 Solid Waste Disposal and Codisposal Site Cleanup Program (F)
			1			Grant Programs (F)
			1		Ì	Used Oil Certification (NR)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITY / II. JURISDICTION

CIWMB's mission is to protect public health and safety and the environment through waste prevention, waste diversion, and safe waste processing and disposal. CIWMB provides grants, information, and education programs that are designed to change public, business, and agency habits and decision-making processes so that they reflect an awareness of the environmental and economic consequences of excessive waste generation. Program authorities include Public Resources Code §§ 40400-49620 and California Code of Regulations, Title 14, Division 7 & Title 27, Division 2. Programs related to estuarine protection include those listed below.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

♦ Solid Waste Facility (SWF) Permits — CIWMB staff (1) review permit applications for the operation of SWFs; (2) review permitted SWFs for compliance with State standards; (3) oversee implementation of CEQA review of SWFs; (4) administer a Statewide remediation program for orphaned, illegal, and abandoned sites; (5) certify Local Enforcement Agencies (LEAs) to administer provisions of the permitting, inspection, and enforcement programs, and (6) assist LEAs to ensure safe disposal and handling of solid wastes. Primary considerations in issuing SWF permits are: (1) prevent environmental damage, (2) provide long-term protection of the environment, and (3) ensure that facilities operate in compliance with State standards and finance assurance requirements for protection of public health and the environment.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations

> Reduced Flow = freshwater flow reductions

> Nutrients = increased nutrient concentrations

> Habitat Loss = adverse impacts to wildlife habitat

♦ Waste Tire Facilities (WTF) Permits — CIWMB staff oversee implementation of the WTF permit process. State law requires persons who store or stockpile more than 500 waste tires at a site to acquire a WTF permit from the CIWMB and to comply with technical standards for the safe storage of waste tires.

B. Resource Management Activities/Programs

◆ Diversion, Planning, and Local Assistance — CIWMB staff assist local governments in meeting the requirements of the California Integrated Waste Management Act Under this Act, 50% of waste generated Statewide must be diverted from landfills by the year 2000. CIWMB Staff provide model planning documents, workbooks, and catalogs to help local jurisdictions, school districts, and other public sector institutions in their diversion efforts (including waste prevention, reduction, reuse, recycling, composting, and safe disposal of used oil and HHWs).

C. Finance Mechanisms

- ♦ Solid Waste Disposal and Codisposal Site Cleanup Program Under this program, CIWMB may provide funds directly to local governments for cleanup or emergency actions, provide loans to responsible parties who demonstrate the ability to repay state funds, or provide matching grants to local governments to assist in remediation of environmental problems in landfills. CIWMB recently approved a \$300,000 grant to clean up the Morro Bay Burn Dump, to include the removal of burn ash and trash (e.g., abandoned metal, tires, and appliances), and the repair of portions of the property damaged by flooding in 1997.
- Grant CIWMB awards grants for projects related to waste management. The agency maintains a database where users can obtain information on CIWMB grant programs.
 - Enforcement Assistance Grants CIWMB provides grant funds to LEAs to assist in their SWF permit and inspection program. Available grants total \$1.5 million annually.
 - Household Hazardous Waste (HHW) Grants CIWMB awards competitive
 grants to California cities, counties, and local agencies to implement new or to expand
 existing programs that emphasize HHW waste/source reduction or HHW
 reuse/recycling. Funding priorities include regional programs, small cities, and rural
 and under-served areas.
 - Used Oil Grants Used oil grants provided by CIWMB include nonprofit grants, opportunity grants, recycling block grants, and research grants.
 - Waste Tire Grants CIWMB awards grants to local agencies for the purpose of diverting tires from landfills by promoting markets of recycled-content products. Examples include the Playground Cover grant, Molded Rubber Products grant, Pilot Waste Tire Grant Program, and Local Government Waste Tire Cleanup Matching Grant Program.

MB NEP Base Programs Analysis, Vol. I

Other Non-Regulatory Programs

♦ Used Oil Certification — CIWMB certifies new collection centers and provides incentives to existing certified collection centers who provide a convenient location for "do-it-yourselfers" to bring their used motor oil for proper disposal or re-refining.

IV. ADMINISTRATION

For further information, contact:

California Integrated Waste Management Board 8800 Cal Center Drive Sacramento, CA 95826 (916) 255-2200

http://www.ciwmb.ca.gov

S12. Ca	alifornia	Nationa	ıl Guard	(CNG)	, Milita	ary	Department	
C	amp Sa	n Luis O	bispo					
	Priority	problems	addressed	i (√) *	•	Key programs/activities/etc.		
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss		(relating to the priority problems)	
1	1	1	1			•	Stormwater Pollution Prevention Plan (RM)	
1	1	1	√			•	Land Management Plan for Camp SLO (RM)	
1	1	1	√	1	1	•	Integrated Natural Resources Management Plan (RM)	
1	1	1	1	1	1	•	Integrated Training Area Management (NR)	

I. MISSION AND AUTHORITY / II. JURISDICTION

The CNG defines its mission in accordance with its federal, State, and community responsibilities and authorities: (1) its federal mission is to provide mission-ready forces to the federal government; (2) its State mission is to protect the public safety of the citizens of California by providing military support to the civil authority during natural disasters and other emergencies; and (3) its community mission is to provide service and support to the local communities in which the National Guard lives.

In the Morro Bay watershed, CNG is a major landholder and has a small residential population at Camp San Luis Obispo in the Chorro Creek sub-watershed. CNG holds water rights to Chorro Creek and Chorro Reservoir, and operates the reservoir for the benefit of several entities. In addition, CNG works with the Bureau of Mines Restoration on projects associated with abandoned mines, including habitat restoration and runoff control (thus minimizing runoff of heavy metals and sediment).

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

Resource Management Activities/Programs

Resource management programs related to estuarine protection include those listed below.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

^{+ =} increased heavy > Heavy Metals metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

- Stormwater Pollution Prevention Plan (SWPPP) CNG is covered by an NPDES General Stormwater Discharge Permit for industrial activity on Camp San Luis Obispo lands. The RWQCB has regulatory oversight for compliance with this permit. Camp San Luis Obispo has inactive mines and landfills, numerous high gradient roads, overgrazed range land, abandoned underground tank sites, heavy vehicle maintenance and training facilities, and numerous lessees whose activities affect water quality. CNG is developing, and continues to modify a SWPPP that will include measures for controlling runoff and/or erosion from roads, abandoned mines, vehicle storage facilities, and other sources of pollution.
- ♦ Land Management Plan for Camp San Luis Obispo (April, 1994) This plan, prepared by the Natural Resources Conservation Service (NRCS), presents resource concerns/impacts, and recommends alternatives to implement resource enhancement measures aimed at reducing sedimentation and improving the water quality of Chorro Creek, Chorro Reservoir, and Morro Bay. Recommended treatments will increase protective plant cover on grassland areas and reduce the extent of weedy plant species at Camp San Luis Obispo. Implementation of the Plan to date has resulted in the revision of a grazing lease, installation of fencing, and regarding of several roads. The California Military Department provided NRCS with a grant to prepare the Plan for the purpose of providing information to evaluate effects of past and current land uses on the camp and to make informed decisions on land use.
- Integrated Natural Resources Management Plan (INRMP) As required by the Sikes Act (Public Law 86-797) and federal regulations (32 CFR Chapter 1, Part 265), an INRMP is being prepared for Camp San Luis Obispo. The INRMP will be used as a comprehensive planning document which will incorporate ITAM data and studies. identify the status of inventory of natural resources (LCTA), and identify land rehabilitation requirements related to erosion control and restoration. The focus will be on how to achieve the Camp's desired future condition over the years 1998-2002. The plan includes the following: (1) an inventory, including GIS maps and aerial photographs, of soils, wetlands, floodplains, erosion potential, vegetation, wildlife, and threatened/endangered species; (2) land restoration (including erosion control and reseeding with native stock); (3) ecosystem management (e.g., research, avoidance of forest fragmentation/over-grazing, off-road vehicle restrictions, low maintenance, and compatible outdoor recreation uses); (4) environmental compliance (related to CWA §401 (erosion) and §404 (wetlands), the Endangered Species Act, and other laws and regulations); (5) natural resources awareness (e.g., through wetlands/endangered species identification courses and natural areas education); and (6) matching of military training loads with environmental constraints to emphasize avoidance rather than costly restoration or mitigation.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

- Integrated Training Area Management (ITAM) ITAM is a key part of the Army's commitment to environmental stewardship. ITAM's environmental goals include: (1) integrate environmental planning procedures into all operations; (2) protect natural/cultural resources; (3) ensure that operations comply with environmental standards; and (4) prevent future pollution and hazardous waste/toxic releases. ITAM Program components are listed below.
 - The Land Condition Trend Analysis (LCTA) component is a relational database and GIS used to support land use planning decisions. LCTA contains physical and biological resources data from land used for training activities. The data are intended to provide information to effectively manage land use and natural/cultural resources.
 - The Land Rehabilitation and Maintenance (LRAM) component plans, designs and conducts land rehabilitation and maintenance projects based on identified requirements and priorities.
 - The Environmental Awareness (EA) component uses educational opportunities to improve land users' understanding of the impacts their activities have upon training lands.
 - The Training Requirements Integration (TRI) component integrates requirements for land uses based on training/readiness requirements, in coordination with the natural and cultural resource conditions of the installation's lands.

For further information, contact:

Camp San Luis Obispo
P.O. Box 8104
San Luis Obispo, CA 93403-8104
(805) 238-8418
http://www.calguard.ca.gov/caot/cslo.htm

California National Guard 9800 Goethe Rd. P.O. Box 269101 Sacramento, CA 95826-9101 (916) 854-3000 http://www.calguard.ca.gov

S13. De	S13. Department of Boating and Waterways (DBW), Resources Agency								
	Priority	problems	addressed	* (V) E			Key programs/activities/etc.		
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss		(relating to the priority problems)		
✓	✓		✓			•	Beach Erosion Control Program (R)		
						•	Clean Vessel Act of 1992, Pumpout Grant Program (F)		
				•		•	Other Mechanisms (F)		
						•	Educational Programs, Publications & Materials (NR)		
						•	Coastal Data Information Program (RM)		
						•	Technical Assistance (NR)		

I. MISSION AND AUTHORITY / II. JURISDICTION

DBW's mission is to improve access to the water for the recreational boating public and to make sure that boating is as safe as possible. DBW coordinates with local governments to develop local and State boating facilities, promotes boating safety and education, assists local agencies in the construction of shoreline protection projects, and works to improve water quality through the promotion and design of pumpout stations in marinas. DBW program authorities include the California Harbors and Navigation Code §§ 1 et seq. The agency's grant programs are derived from the Federal Clean Vessel Act of 1992. DBW has no statutory environmental regulatory programs; however, the agency sponsors boating law enforcement to ensure that California boating laws are enforced uniformly throughout the State. DBW also plans, designs, finances, and constructs boating facilities throughout the State Park System, State Water Project reservoirs and on other State lands. Other programs related to estuarine protection include those listed below.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

Regulatory Activities/Programs

Beach Erosion Control Program — DBW is the lead State agency for coastal erosion control. Agency objectives include: (1) to preserve and protect the shoreline, (2) to minimize economic losses caused by beach erosion, and (3) to maintain much-needed recreational beaches. The agency reviews and addresses individual project requests on a site-specific basis.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

B. Resource Management Activities/Programs

◆ Coastal Data Information Program (CDIP) — DBW has developed scientific methods for studying coastal processes such as real-time wave data gathered by the CDIP. The Program is currently using the instrumentation and technology developed by the Department to monitor wave action. Research on currents and waves in harbors and harbor entrances has been published in scientific journals and is used worldwide. The program routinely supports graduate student work and training.

C. Finance Mechanisms

- ◆ Clean Vessel Act of 1992, Pumpout Grant Program In 1992, the U.S. Congress passed the Clean Vessel Act to help reduce pollution from vessel sewage discharges into U.S. waters. The DBW administers the Pumpout Grant program which helps to fund the construction, renovation, operation, and maintenance of pumpout and dump stations to service pleasure craft. Clean Vessel Act funds are available to both the public and private sector, including local governmental entities and private businesses that own and operate boating facilities that are open to the general public. The Grant reimburses recipients for up to 75% of the installed cost of pumpout and dump stations. This includes the cost of new equipment, or the renovation of existing equipment, as well as necessary pumps, piping, lift stations, on-site holding tanks, pier/dock modifications, signs, permits and other miscellaneous equipment needed for a complete and efficient station. The grant recipient must provide at least 25% of the installed costs; the match can be cash, the fair market value of any labor or materials provided, or a combination thereof.
- ♦ Other Finance Mechanisms DBW's budget includes funds for public sector boating facility construction loans, public sector boat launching facility grants, private sector marina construction loans, capital outlay projects, and beach erosion control projects. To insure that California's waterways are adequately protected through local law enforcement agencies, DBW provides supplemental State funding to local governments for marine patrols.

D. Other Non-Regulatory Programs

- ♦ Educational Programs, Publications & Materials DBW provides an Aquatic Safety Educational Program (AquaSMART) for students in grades K-12 in all California public schools. DBW also provides educational materials regarding vessel pumpout locations and use, as well as free pamphlets that review State and federal marine pollution laws. Examples of these materials are provided below.
 - Vessel Pumpout Locator Cards show the location of vessel sewage pumpout facilities and pumpout stations for areas that include San Luis Obispo.
 - Shipshape Sanitation, MSD's and Pumpouts explains laws and regulations regarding Marine Sanitation Devices (MSD's), vessel sewage discharge, and the importance of proper disposal.
 - Clean Vessel Act explains requirements and laws regarding the Clean Vessel Act.

MB NEP Base Programs Analysis, Vol. I

- Federal Water Pollution Control Act describes the federal law that requires all boats 26 feet or greater to display an Oily Waste Discharge Placard in the engine compartment or near the fuel pumping station.
- MARPOL Annex V provides a summary of this law which governs the disposal of plastic debris. This summary, which is available on information placards, is required to be prominently displayed by all boats over 26 feet in length.
- ♦ Technical Assistance Limited technical assistance is available through DBW personnel responsible for administering the various DBW programs.

IV. ADMINISTRATION

For further information, contact:

Department of Boating and Waterways 1629 S St.
Sacramento, CA 95814-7291 (916) 445-2616 http://www.dbw.ca.gov

S14. California Department of Conservation (DOC), Resources Agency

- → Office of Land Conservation
- → Office of Mine Reclamation & State Mining and Geology Board
- Division of Oil, Gas, and Geothermal Resources (DOGGR)

-	Priorit	y problems	addressed	(√) *		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
						Farmland Mapping and Monitoring Programs (RM)
						GeoSAR (RM)
						Soil Resource Protection Program (RM)
1			1			Agricultural Land Stewardship Program (NR)
						Williamson Act Program (NR)
						Finance Mechanisms/Voluntary Initiative/Technical Assistance (NR)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITY / II. JURISDICTION

DOC's mission is to provide stewardship for the State's resources by fostering the wise use of State land, energy and minerals through policy direction, education, regulation, and dissemination of information about agricultural/open space lands, soil, geology/seismology, recycling, and mineral, geothermal and petroleum resources. DOC activities are key to decisionmaking and regulation for land use planning, resource management, resource conservation, sustainable economic development, and public safety.

FUNCTIONS (regulatory, resource management, finance, and non-regulatory) III.

Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

B. Resource Management Activities/Programs

DOC programs related to estuarine protection include those listed below.

- Farmland Mapping and Monitoring Program (FMMP) The FMMP monitors land use change affecting California's agricultural land, and produces and provides maps and statistical data used for assessing and planning California's agricultural resources. Data are routinely provided to the private sector, local, State, and federal agencies. Agricultural land is rated according to soil quality and irrigation status. High altitude aerial photographs, computer mapping systems, public review, and field reconnaissance are used to map 47 counties covering 43 million acres every two years. It is the only Statewide land use inventory conducted on a regular basis that identifies agricultural and urban land conversions.
- GeoSAR GeoSAR is a team project to develop a commercial airborne, radar-based, terrain mapping system using technology developed by NASA and the federal Advanced Research Projects Agency (ARPA). The project team consists of the ARPA Sensor Technology Office, NASA's Jet Propulsion Laboratory at the California Institute of Technology, Calgis Inc. (a small business), and the DOC which brought together the GeoSAR team.
- ♦ Soil Resource Protection Program The DOC implements the State's Soil Conservation Plan for Ca. This program identifies ways to deal with soil resource problems such as soil erosion, soil salinity and soil contamination. DOC staff provide technical assistance to Resource Conservation Districts and other local, state and federal agencies and to the public to support soil and related resource conservation.

C. Finance Mechanisms

This agency does not implement any financial mechanism activities or programs.

D. Other Non-Regulatory Programs

- ♦ Agricultural Land Stewardship Program (ALSP) DOC administers the ALSP. The ALSP is a voluntary program intended (1) to encourage long-term, private stewardship of agricultural lands; (2) to protect continuation of farming and ranching operations; (3) to protect the agricultural economy of rural communities; (4) to encourage orderly and efficient urban growth; and (5) to encourage improvements that enhance long-term sustainable agricultural uses.
- ♦ Williamson Act Program DOC implements programs pursuant to the Act. The Williamson Act is a voluntary land conservation program created in 1965 to balance pressures of urban growth by providing incentives for farmers and ranchers to remain in agriculture. The Act has several purposes: (1) to preserve farmland for a secure food supply for the State and Nation and for future generations; (2) to maintain agriculture's contribution to local and state economic health; (3) to provide economic relief to tax-burdened farmers and ranchers; (4) to promote orderly city growth, and discourage

leapfrog development and premature loss of farmland; and (5) to preserve open space for its scenic, social, aesthetic and wildlife values. Approximately 50% of the State's 30 million acres of agricultural/open space land, and nearly 70% of the State's prime agricultural land, is currently protected under the Williamson Act. The Act is estimated to save agricultural landowners from 20% to 75% in property tax liability each year (when land is enrolled in a Williamson Act contract, landowners are taxed at a lower rate, using a scale based on the actual use of the land for agricultural purposes versus its unrestricted market value).

♦ Finance Mechanisms/Voluntary Initiative/Technical Assistance -- ALSP provides funds for cities, counties and nonprofit land trusts to purchase development rights ("conservation easements") on eligible land from agricultural owners, to improve agricultural land protected by conservation easements, and to obtain technical assistance. A minimum of 90% of available funds must be used to acquire easements; a maximum of 10% may be used for land improvements and technical assistance.

IV. ADMINISTRATION

DOC offices with responsibilities applicable to priority problems identified in the Morro Bay watershed include those offices listed below.

- The Office of Land Conservation manages four State programs that monitor and protect farmland and soil resources: Agricultural Land Stewardship Program, Farmland Mapping and Monitoring Program, Soil Resource Protection Program, and Williamson Act Program.
- The Office of Mine Reclamation (OMR) administers the Surface Mining and Reclamation Act to ensure environmental protection and reclamation of mined lands. OMR provides assistance to cities, counties, state agencies and mine operators for reclamation planning.

The Division of Oil, Gas, and Geothermal Resources (DOGGR) supervises the drilling, operation, maintenance and abandonment of oil, gas and geothermal wells to safeguard the public, the environment, and energy resources. DOGGR has direct regulatory authority over specified oil and gas operations in State Tidelands or onshore.

For further information, contact:

Department of Conservation 801 K Street Sacramento, CA 95814 http://www..ca.gov

Divisions within the DOC include:

- Land Conservation (916) 324-0850
- Mine Reclamation (916) 323-9198
- Oil, Gas and Geothermal Resources (916) 445-9686

	ifornia I rces Age	_	ent of For	estry and	l Fire P	Protection (CDF),
	Priorit	y problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
1		1		√	1	Timber Harvest Plans (RM)
1	1	1	-, ·····	√	1	Sustained Yield Plans (RM)
1				1	1	• Fire and Resource Assessment Program (RM)
1			<u>-</u>		1	California Fire Plan (RM)
					1	 Forest Stewardship and Stewardship Incentive Program (NR)
					1	Pine Pitch Canker Task Force OID

I. MISSION AND AUTHORITY / II. JURISDICTION

CDF protects the public from fires, responds to emergencies, and protects and enhances forest, range and watershed values that provide social, economic and environmental benefits to rural and urban citizens. CDF is responsible for managing fire protection services for wildlands, regulating logging practices, and providing assessments of the State's forest and rangeland resources. Under the Forest Practices Act of 1973, CDF is required to regulate private and State forest activities in a manner that will result in the maximum sustainable yield of high quality timber products, while maintaining water quality and fish and wildlife populations. It also plans, regulates and executes controlled burns to remove vegetative hazards and improve wildlife habitat and prevent degradation of water resources. CDF program authorities include the Forest Practice Act of 1973, Forest Practice Rules and relevant sections of the Public Resources Code, Fish and Game Code, and State Endangered Species Acts. Programs related to estuarine protection include those listed below.

- ♦ CDF reviews **Timber Harvest Plans (THPs)** submitted by private landowners and logging companies who want to harvest trees on their property. Through an **Management Agency Agreement (MAA) with the State Water Resources Control Board (SWRCB)**, CDF imposes silviculture best management practices and requirements on THPs. Additionally, CDF has post wildfire recovery plans which include re-seeding and mulching to reduce erosion and sedimentation.
- ♦ CDF also reviews Sustained Yield Plans (SYPs) submitted by timberland owners who

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

want to harvest trees on their property. SYPs are one of the mechanisms that timberland owners can use to meet the State's requirement for maintaining maximum sustained production. SYPs must include projections of timber growth and harvesting over a 100-year or longer planning horizon, assessment of watershed and wildlife resources, and constraints of other resource values on timber production. Issues and mitigation measures that are adequately covered in an approved SYP may be addressed in individual THPs by reference to the SYP. Following approval, an SYP is in force for a period of 10 years.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

- ◆ CDF's Fire and Resource Assessment Program (FRAP) is the strategic planning and resources assessment arm of the agency. In this critical role, FRAP: (1) analyzes trends in the State's natural resource systems, in economic and social environments, and public needs; (2) identifies alternative programmatic responses to these changes; and (3) continues former responsibilities for monitoring and assessment of condition and the availability of wildland resources at a Statewide level. This responsibility includes the development of computerized geographic information system (GIS) databases and analysis software. (Information about FRAP's projects, data, tools and publications can be obtained at http://frap.cdf.ca.gov).
- The California Fire Plan puts human and information systems resources in place to assess California's wildland fire problems. Preparation of the Plan involved stakeholders in defining solutions and developing management measures that can be put in place before a fire occurs.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

- ♦ CDF's Forest Stewardship and Stewardship Incentive Program encourages restoration of forest land.
- ◆ CDF's Pine Pitch Canker Task Force periodically issues media advisories on issues related to CDF activities. For example, CDF issues an advisory each Fall on taking precautions to help control the spread of pine pitch canker. As a member of the Pine Pitch Canker Task Force, CDF wants the State's citizens to be aware of this fungal disease that kills native and ornamental pine trees and may infect Monterey pine Christmas trees. The disease is present in 15 coastal and adjacent inland California counties from Mendocino to San Diego, and has been isolated in Morro Bay. Bark

MB NEP Base Programs Analysis, Vol. I

Beetles, which carry the fungus, primarily infest Monterey and Bishop pines, but also feed and breed on inland forest trees such as Ponderosa pine. CDF's concern is that the disease could be transported to areas of the State that don't have pitch canker. Since there is no known cure for the disease, limiting its spread is the key to prevention.

IV. **ADMINISTRATION**

For further information, contact:

California Department of Forestry and Fire Department of Forestry and Fire Protection

Protection

635 N. Santa Rosa St.

San Luis Obispo, CA 93405

(805) 543-4244

1416 Ninth St.

Sacramento, CA 95814

(916) 653-5121

http://www.fire.ca.gov

S16. Cal	ifornia I	Departme	nt of Par	ks and F	Recreati	on	(DP&R), Resources Agency
	Priority	problems	addressed	i (√) *			Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss		(relating to the priority problems)
					1	•	Land/Habitat Management (RM)
1	1	1	1	√	√	•	Docent Program (NR)
	1	1	1	1	1	•	Pilot Projects (NR)

I. MISSION AND AUTHORITY / II. JURISDICTION

The DP&R manages State Park lands including marinas. Its mission is to provide for the health, inspiration, and education of the people of California by helping to preserve the State's extraordinary biological diversity, protecting its most valued natural and cultural resources, and creating opportunities for high quality outdoor recreation. DP&R program authorities are derived from the Public Resources Code Programs related to estuarine protection include those listed below.

III. FUNCTIONS (regulatory, resource management, finance, voluntary, education/technical assistance, and/or planning)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

◆ Land/Habitat Management — DP&R owns much of the sensitive wetland land at the edge of Morro Bay, and has recently been granted jurisdiction over areas of open water owned by State Lands Commission. The agency has prepared several General Plans for the following parks within the watershed region: Morro Bay State Park, Montana De Oro State Park, Los Osos Oaks State Preserve.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

♦ Docent Program — DP&R staff train volunteers who interpret the cultural, natural and recreational resources of State Parks to visitors.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

MB NEP Base Programs Analysis, Vol. I

♦ Pilot Projects — DP&R is testing several pilot educational programs, such as Project Reach and Project FamCamp, that are designed to make the educational resources of State Parks accessible to the widest possible spectrum of people.

IV. ADMINISTRATION

For further information, contact:

Department of Parks and Recreation San Luis Obispo Coast District 3220 S. Higuera St. Suite 311 San Luis Obispo, CA 93401 (805) 549-3312 Department of Parks and Recreation 1416 Ninth Street P.O.Box 942896 Sacramento, CA 94296-0001 (916) 653-6995 http://www.

	Priority	problems	addressed		Key programs/activities/etc.		
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss		(relating to the priority problems)
			1			•	Hazardous Waste Facilities Permits (R)
			1			•	Site Mitigation Program (R)
			1			•	Other Cleanup Programs (R)
			1			•	Voluntary Cleanup Program (NR)
-			√			•	California Environmental Technology Partnership Certification (NR)
			1			•	Registration of Environmental Assessors Program (NR)
			√			•	California Compliance School (NR)
			√			•	Hazardous Waste Generator/Small Business Outreach Workshops (NR)
			√			•	Toxics Update (NR)
			1			•	Emergency Response Training (NR)

I. MISSION AND AUTHORITY / II. JURISDICTION

DTSC is the lead agency in California for hazardous waste management. The agency manages the cleanup of hazardous waste sites, and regulates the transport, treatment, storage, and disposal of hazardous waste. DTSC is also concerned with groundwater contamination resulting from households, septic tanks, agriculture, landfills, underground storage tanks and pipelines, industrial wastes, and the reduction and treatment of such wastes. The agency's mandate is to protect public health and the environment from harmful exposure to hazardous substances, without unnecessarily impacting sustainable growth and development. DTSC program authorities include (1) the Health and Safety Code (H&SC) Division 38 §§ 58000 et seq., (2) H&SC Div. 20 §§ 25100 et seq. (Hazardous Waste Control), and (3) the California Code of Regulations Title 3, §§ 6000 et seq., Title 22 §§ 66250.1 et seq., and Title 27, Div. 2.

DTSC activities include permitting, site cleanup, pollution prevention, environmental technology certification, public participation, and education (e.g., demonstrate innovative methods, provide training, and disseminate information). In performing these activities, DTSC may (1) perform the activity directly, (2) enter into contracts or agreements to perform the activity, (3) apply for and receive grants to perform the activity, and/or (4) award grants to perform the activity. Programs related to estuarine protection include those listed below.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance, non-regulatory)

A. Regulatory Activities/Programs

- ◆ Hazardous Waste Facilities Permits DTSC issues permits to operate to any person who stores, treats or disposes of "hazardous waste." The H&SC defines hazardous waste as waste or a combination of wastes that, because of quantity, concentration, or physical or chemical characteristics, may either: (a) cause or significantly contribute to an increase in mortality or an increase in serious, irreversible or incapacitating reversible illness; or (b) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of or otherwise managed.
- Site Mitigation Program This program, implemented by DTSC under CERCLA and the National Contingency Plan, assesses hazardous waste areas that are or may contribute to pollution, and develops clean-up operations to mitigate pollution from such areas. Cleanup sites include State-funded sites, federal Superfund sites, federal military installations, and other responsible party-lead sites. An important element of DTSC project management at cleanup sites is interagency coordination to ensure that remediation requirements are met, that adjacent communities are kept informed, and that the public has an opportunity to provide input into the site mitigation process. DTSC works with the U.S. EPA, Department of Defense and military branches (for operational and closing military bases), State Water Resources Control Board, and other public and private entities to formulate cleanup policies, to expedite the re-use of formerly contaminated sites, to encourage development and use of new cleanup technologies, and to foster public participation in the cleanup process. A Memorandum of Understanding exists between the Regional Boards, the SWRCB and the Department of Toxic Substances Control specifying roles and responsibilities in hazardous waste cleanups at federal facilities where overlap may occur.
- Other Cleanup Programs The following programs are key links in DTSC's and Cal/EPA's efforts to out-source to qualified professionals to ensure that appropriate cleanup actions are taken at contaminated properties. (See also Voluntary Cleanup Program below.)
 - Local Agency Cleanup Program This program allows a local health agency to enter into a written agreement with DTSC to supervise the cleanup of a waste release, set cleanup goals, and certify that the cleanup goals were accomplished.
 - Private Site Management (PSM) Program This program is intended to increase private sector cleanup activities at low-level hazardous substance sites, and to help return formerly contaminated property to productive use. Under the program, DTSC would register Class I and Class II assessors. Registered Class II assessors can act as Private Site Managers with authority (1) to investigate potential hazardous substance releases using DTSC procedures; (2) to determine if a significant release has occurred, is likely to occur, or has not occurred; and (3) to conduct and complete a response action. DTSC's Site Mitigation staff would provide limited oversight with specific responsibilities to ensure that PSM Program sites meet State cleanup standards. Before program implementation can begin, DTSC must establish regulations for PSM performance standards and for registration criteria for Class I/II assessors.

B. Resource Management Activities/Programs

This agency does not implement any resource management activities or programs.

C. Finance Mechanisms

♦ DTSC may award grants for the performance of any activity related to the protection, preservation, and advancement of public health (H&SC § 58017).

D. Other Non-Regulatory Programs

- ◆ Voluntary Cleanup Program This program addresses low-risk sites with known or suspected soil and/or groundwater contamination that may not otherwise be addressed due to limited resources. Excluded from this program are federal or State Superfund sites, federal facilities, or sites outside DTSC jurisdiction (e.g., sites with petroleum-only products/waste) unless the primary oversight agency gives its consent to this voluntary approach. The program allows motivated project proponents that are able to fund site cleanup activities at their lower priority sites to proceed with investigation and remediation. DTSC works cooperatively with such proponents to produce a more efficient and cost-effective approach to site assessment and cleanup.
- ♦ California Environmental Technology Partnership (CETP) Certification The CETP, coordinated by Cal/EPA, recognizes, promotes, and assists California companies that research, develop, and market environmental technologies and services. Under the CETP certification process, DTSC gathers and reviews data to substantiate vendors' claims related to hazardous waste environmental technologies.
- ♦ Registration of Environmental Assessors (REA) Program Established in 1987, this program connects businesses with professionals who have the technical expertise to assist with maintaining compliance with environmental regulations. DTSC registers as REAs those applicants who fulfill legislatively mandated education and experience requirements.
- ♦ California Compliance School DTSC, in cooperation with the California Community Colleges, has developed a series of classes that provide hands-on training for individuals engaged in the management of hazardous wastes. The training programs and a Workbook convey basic training on hazardous waste management practices that help a facility achieve and maintain compliance with current hazardous waste management rules and regulations.
- ♦ Hazardous Waste Generator/Small Business Outreach Workshops DTSC, Cal/EPA, and the U.S. EPA periodically present workshops on hazardous waste management. The workshops are beneficial to any business that uses hazardous materials, such as paints or coatings, solvents for cleaning, adhesives or glues, etching or plating solutions, lubricants or oils, coolants, photographic solutions, etc.
- Toxics Update DTSC's Office of External Affairs publishes a bi-monthly Guide to Regulatory Assistance, Publications, Information Access, and Other Matters of Interest.
- Emergency Response Training The Public Utilities Code requires DTSC to conduct an annual exercise in response to a major chemical emergency from a surface transportation

MB NEP Base Programs Analysis, Vol. I

accident. In 1996, DTSC and the San Luis Obispo County Office of Emergency Services conducted an annual Railroad Accident Prevention and Immediate Deployment (RAPID) exercise at the California Specialized Training Institute in Camp San Luis Obispo.

IV. ADMINISTRATION

For further information, contact:

Regional Office (serving SLO County):

Department of Toxic Substances Control Sacramento Field Office 10151 Croydon Way, Ste. 3 Sacramento, CA 95827 (916) 255-3618 **Headquarters**:

Department of Toxic Substances Control 400 P Street
P.O. Box 806
Sacramento, CA 95812-0806
(916) 324-1826
http://www.calepa.ca.gov/dtsc/dtsc.htm

i		Departn on and H				ı (C	Caltrans), Business
	Priority	problems	addressed			Key programs/activities/etc.	
Sediment B	Bacteria	Nutrients	Heavy	Reduced	Habitat		(relating to the priority problems)
beamen	Dacteria	14uu iciius	Metals +	Flow	Loss		·
1			✓ .	1	1	•	Environmental Enhancement and

I. MISSION AND AUTHORITY / II. JURISDICTION

Caltrans' mission is to provide the people of California with a safe, efficient and effective transportation system; to plan, develop, maintain and manage State roads and highways; and to assist and guide delivery of local and regional transportation services. To achieve its mission, Caltrans seeks to manage resources within State Highway Right of Way, prevent hazardous and incompatible use of floodplains, restore and preserve natural and beneficial floodplain values, and manage surface runoff and drainage. For the latter, Caltrans is working to control or prevent polluted runoff (nonpoint source pollution) through the implementation of Best Management Practices (BMPs) in construction projects and in roadside applications of herbicides. Caltrans also issues encroachment permits for any work within the State Highway Right of Way. Evaluation for flood plain projects must be in agreement with standards and criteria of the Federal Highway Programs Manual, and with the Federal Emergency Management Agency's National Flood Insurance Program.

Caltrans District 5 covers highways in Monterey, San Luis Obispo, Santa Cruz, San Benito and Santa Barbara Counties. Programs related to estuarine protection include those listed below.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

• Environmental Enhancement and Mitigation (EEM) Program — This program administers Caltrans' responsibilities under federal and state environmental law. Program staff identify and assess the effects of Caltrans projects on the state's natural and cultural

Mitigation Programs (RM) California Wild (RM)

Stormwater Management (RM)

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

MB NEP Base Programs Analysis, Vol. I

environments, and identify ways to avoid or mitigate those effects. Legislature is authorized to allocate ten million dollars annually, for ten years, starting in 1991, to local, state, and federal agencies, and nonprofit organizations. Applicants may apply for these funds to undertake environmental enhancement and mitigation projects which are directly or indirectly related to the environmental impact of modifying existing transportation facilities, or for the design, construction or expansion of new transportation facilities. The related transportation facility must have been modified or constructed in 1991 or later and the EEM project must be over and above the required mitigation for the related transportation facility.

Caltrans has matched a Coastal Conservancy grant with \$835,000 to purchase land on lower Chorro Creek to serve as a sediment trap/flood plain.

- ♦ CaliforniaWild The Office of State Landscape Architecture develops projects that preserve, manage effectively, and enhance native roadside vegetation for their functional, fiscal, scientific, cultural, environmental, and aesthetic values.
- ♦ Stormwater Management CalTrans is covered by an NPDES permit for stormwater discharge and construction activities. RWQCB has regulatory oversight. (See Camp SLO)

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

This agency does not implement any other non-regulatory activities or programs.

IV. ADMINISTRATIVE

For further information, contact:

Caltrans, District 5
50 Higuera St.
San Luis Obispo, CA 93401-5415
(805) 549-3182

California Department of Transportation 1120 N St. Sacramento, CA 95814 (916) 654-2852 http://www.dot.ca.gov

S19. De	partmer	nt of Wat	ter Reso	urces (D	WR), F	Res	ources Agency
	Priority	problems	Key programs/activities/etc.				
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss		(relating to the priority problems)
				1		•	Environmental Compliance, Permitting, & Review (RM)
				✓		•	Model Water Efficient Landscape Ordinance (RM)
				1		•	Land Resources and Use Program (RM)
				√		•	California Irrigation Management Information System (RM)
				√		•	Urban Streams Restoration Program (F)
				-		•	Water Education Program (NR)
				✓		•	Agricultural Water Management Plan (NR)
				√		•	Agricultural Drainage Reduction (NR)
				1		•	Agricultural Efficient Water Management Practices (NR)
				1		•	Agricultural Training & Education Program (NR)
				1		•	Mobile Irrigation Management Laboratories (NR)

I. MISSION AND AUTHORITY / II. JURISDICTION

DWR's mission is to manage the water resources of California in cooperation with other agencies, to benefit the State's people, and to protect, restore, and enhance the natural and human environments. DWR manages an immense system of aqueducts, dams, reservoirs, and pumping and power plants that deliver water to urban and agricultural areas throughout the State. The California Water Commission's mission is to advise DWR and to coordinate state and local views with regard to federal appropriations for flood control, water and fishery projects in California. Programs related to estuarine protection include those listed below.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

metal/toxins > Heavy Metals + = increased heavy concentrations

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

[➤] Habitat Loss = adverse impacts to wildlife habitat

B. Resource Management Activities/Programs

- ♦ Environmental Compliance, Permitting, & Review DWR staff provide technical assistance to agencies and individuals in completing various environmental compliance and permitting documents or applications relating to water supply projects. DWR will perform necessary field reconnaissance work to establish baseline environmental data used for project scoping, impact analysis, mitigation planning and monitoring, and project permitting requirements. DWR also coordinates review of CEQA, NEPA and ACOE CWA § 404 permits for both DWR and the Resources Agency.
- Model Water Efficient Landscape Ordinance Pursuant to the Water Conservation in Landscaping Act of 1990, DWR adopted a Model Water Efficient Landscape ordinance that went into effect in January 1993. Cities and counties had options to adopt the Model Ordinance, adopt their own ordinance, or issue findings that no ordinance is necessary. If no action was taken, the Model Ordinance automatically went into effect.
- ◆ Land Resources and Use Program Under this program, DWR (1) conducts field surveys to collect urban and agricultural land use data, (2) digitizes and analyzes the data for use in water-demand investigations, and (3) maintains historic maps and databases of land use data.
- ♦ California Irrigation Management Information System (CIMIS) CIMIS is a repository of climatological data collected at computerized weather stations located throughout California. CIMIS was developed by DWR and the University of California, Davis and has been operational since 1982. Access is possible with high-speed modems as well as through the Internet. CIMIS helps agricultural growers and turf managers administering parks, golf courses and other landscapes to develop water budgets to determine when to irrigate and how much water to apply. Providing information for improving water and energy management through efficient irrigation practices is the primary use of the CIMIS system.
- Environmental and Recreational Planning -- This is one of DWR's local assistance programs. It offers technical guidance and assistance to public and private agencies to promote environmental measures such as restoring spawning gravel, building fish screens and ladders, developing new habitat, increasing streamflow volume, and preserving and restoring wetlands.

C. Finance Mechanisms

♦ Urban Streams Restoration Program — DWR works with citizens and local government agencies to address water-related problems of urban streams, including bank erosion and flooding. This program identifies funding sources and offers grants on a competitive basis for projects that solve urban creek problems and restore natural environmental values.

D. Other Non-Regulatory Programs

• Urban Streams Restoration Program — DWR works with citizens and local government

agencies to address water-related problems of urban streams, including bank erosion and flooding. This program identifies funding sources and offers grants on a competitive basis for projects that solve urban creek problems and restore natural environmental values.

- ♦ Water Education Program This DWR program provides technical assistance to local water districts in planning, organizing and implementing water education and conservation programs for schools and the general public. It identifies and develops water conservation materials that can be integrated into school curriculums statewide.
- ◆ Agricultural Water Management Planning —DWR helps local agencies to develop and implement Agricultural Water Management Plans [mandated under Assembly Bill (AB) 658] for water conservation and drainage reduction programs.
- ♦ Agricultural Drainage Reduction DWR assists growers and water agencies to reduce agricultural drainage water, and to improve, develop and use on-farm drainage and salinity management practices. DWR staff also conduct on-farm demonstration projects to reduce agricultural drainage.
- Agricultural Efficient Water Management Practices Mandated by AB 3616, DWR staff conduct the following activities: (1) assist local agencies with developing a list of efficient agricultural water management practices for water suppliers, (2) help agencies implement and evaluate the effectiveness of such practices and initiate cooperative, cost-effective activities with local agencies, and (3) help agricultural water suppliers implement water management plans regarding efficient water management practices.
- ♦ Agricultural Training & Education Program This program provides training and educational short courses related to on-farm irrigation management, flexible water delivery, and irrigation system evaluations. It also plans, reviews and contracts for bilingual workshops for irrigators of farming operations and large turf areas.
- Mobile Irrigation Management Laboratories In cooperation with local agencies, DWR provides irrigation system evaluations for furrow, border strip, sprinkler, microirrigation, and other irrigation systems. DWR staff make recommendations to growers on how to improve irrigation efficiency, provide quality assurance, sponsor workshops, promote local funding, distribute various types of printed materials, and participate in various fairs.

For further information, contact:

Department of Water Resources Southern District Office 770 Fairmont Ave. Glendale, CA 91203-1035 (818) 543-4600 Department of Water Resources 1416 Ninth Street Sacramento, CA 95814 (916) 653-5791 http://wwwdwr.water.ca.gov

	Priority	problems	addressed	(√)*		Key programs/activities/etc.
Sediment		Nutrients			Habitat Loss	(relating to the priority problems)
						(√ if any agency activities apply)

I. MISSION AND AUTHORITY / II. JURISDICTION

The OEHHA assesses the health risks from exposures to chemicals in air, water, food, hazardous and municipal waste facilities, fish, shellfish, and bay and estuarine sediments, and provides information and advice for risk management decisions. It also provides scientific peer review of risk assessments conducted by other agencies (e.g., pesticide risk assessments conducted by the Department of Pesticide Regulation), and it is the lead agency for implementing the Safe Drinking Water and Toxic Enforcement Act of 1986. Programs related to estuarine protection include those listed below.

III. FUNCTIONS (REGULATORY, RESOURCE MANAGEMENT, FINANCE, AND NON-REGULATORY)

REGULATORY ACTIVITIES/PROGRAMS

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

This agency does not implement any resource management activities or programs.

B. Finance Mechanisms

This agency does not implement any finance activities or programs.

D. Other Non-Regulatory Programs

This agency does not implement any other non-regulatory activities or programs.

IV. ADMINISTRATION

[More information needed.]

For further information, contact:

Office of Environmental Health Hazard Assessment (OEHHA)

301 Capitol Mall

http://www.

Sacramento, CA 95814 (916) 324-7572

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

	Priority	problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
√	1	√	1	√	√	Morro Bay Watershed Hydrologic Unit Area Project
√	1	√	√	1	1	California Sea Grant Program

I. MISSION AND AUTHORITY / II. JURISDICTION

The U. C. Cooperative Extension works to improve agricultural productivity through research and education. Through many different educational outreach programs, Cooperative Extension provides assistance and advice to farmers regarding erosion control practices, chemical and pesticide applications, water conservation, irrigation, and methods to increase crop and livestock production. Programs related to estuarine protection include those listed below.

III. FUNCTIONS (regulatory, resource management, finance, voluntary, education/technical assistance, and/or planning)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

- Participation in the Morro Bay Watershed Hydrologic Unit Area Project in partnership with NRCS, including:
 - Watershed management education programs, including a ranch water quality short course and a 4-H youth watershed project.
 - Ranch planning water quality short course provides education to ranchers regarding water quality management on rangelands.
 - Expertise and experience in CRMP process.

C. Finance Mechanisms

♦ Administrator of the University of California Sea Grant Extension Program, funded by NOAA, for projects that encourage wise stewardship of marine resources.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

Dacteria - increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

[➤] Habitat Loss = adverse impacts to wildlife habitat

D. Other Non-Regulatory Programs

This agency does not implement any other non-regulatory programs.

IV. ADMINISTRATION

Cooperative Extension is part of the Division of Agriculture and Natural Resources of the University of California. Cooperative Extension has offices in nearly all of the counties in the state. There are several Cooperative Extension advisor within each county, as well as advisors with cross county assignments.

For further information, contact:

County Office:

University of California, Cooperative Extension 2156 Sierra Way, Suite C San Luis Obispo, CA 93401 (805) 781-5940

University Office:

Division of Agriculture and Natural Resources 1111 Franklin Street, 6th Floor Oakland, CA 94607-5200 (510) 987-0060

Regional Office:

University of California, Cooperative Extension Division of Agriculture and Natural Resources-Southern Region Riverside, CA 92521 (909) 787-3321

2.3 FEDERAL AGENCIES

Primary Agencies Involved In Protection Of The Morro Bay Estuary

- F1. U.S. Environmental Protection Agency (EPA)- Page 149
- F2. U.S. Army Corps of Engineers (ACOE)- Page 157
- F3. U.S. Fish and Wildlife Service (USFWS), U.S. Dept. of the Interior- Page 162
- F4. Natural Resources Conservation Service (NRCS), U.S. Dept. of Agriculture (USDA) Page 168

Secondary Agencies

- F5. Farm Service Agency (FSA), USDA Page 175
- F6. National Oceanic and Atmospheric Administration (NOAA), U.S. Dept. of Commerce Page 176
- F7. NOAA, National Marine Fisheries Service (NMFS), U.S. Dept. of Commerce Page 180
- F8. U.S. Coast Guard (USCG) Page 182
- F9. U.S. Forest Service (USFS), USDA Page 184
- F10. U.S. Geological Survey (USGS), U.S. Dept. of the Interior Page 187

F1. U.S.	Enviro	nmental	Protect	ion Age	ney (El	PA)
	Priority	problems	addressed	l (√) *		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
√.	1	1	4	1	•	Federal Water Pollution Control Program (R)
	1	1	1			National Pollution Discharge Elimination System (NPDES) (R)
1	1	1	1	1	1	TMDL Process (R)
✓	1	1	1	1	1	Ambient Water Quality Monitoring and Assessment (R)
1	1	√	1			Water Quality Standards (R)
1			1		1	National Wetlands Program (R)
1	1	1	1	1	1	NEPA Review
1			1			Ocean Dumping (R)
	·		1			Pesticides & Groundwater (R)
			1			Superfund (R)
			1			National Spill Prevention and Response (R)
			1			National Hazardous Waste Control Program (R)
		 	1			Toxic Substances Control (R)
			1			Emergency Planning and Community Right to Know (R)
1	1	1	1	1	1	Water Quality Criteria (RM)
√	1	1	1	1	1	National Estuary Program (RM)
√	1	1	7	1	1	Nonpoint Source Pollution/CZARA Programs/National Monitoring Program (RM)
	1	1	1	1	1	Water Quality Assessment (RM)
√	1	1	1	1	1	National Pollution Prevention Program (RM)
1	1	1	1			Environmental Monitoring and Assessment Program (RM)
✓	✓	1	√			• Index of Watershed Indicators (RM)
1	1	1	1		1	• Grants (F)

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

I. MISSION AND AUTHORITIES

EPA's mission is to protect, maintain, restore, and enhance environmental quality and human health through the regulation of activities that have potentially harmful effects on air, water and land resources. The EPA administers and implements the Clean Water Act (CWA) in partnership with other designated federal, state, and local agencies. Other EPA program authorities related to estuary protection include: the Marine Protection, Research and Sanctuaries Act (MPRSA); Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Ocean Dumping Ban Act; National Environmental Protection Act (NEPA); Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA); Resource Conservation and Recovery Act (RCRA); Endangered Species Act; and the Coastal Zone Act Reauthorization Amendments of 1990 (CZARA) in partnership with the National Oceanic and Atmospheric Administration (NOAA).

II. JURISDICTION

EPA has jurisdiction throughout the United States and offshore territories to 200 nautical milesEPA programs are administered through 10 regional offices; EPA Region 9 includes Morro Bay. In Morro Bay, EPA administers the Morro Bay National Estuary Program (MBNEP).

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- Federal Water Pollution Control Program This program, as authorized by CWA Section 106, provides annual funding to California for the purpose of implementing the following programs to abate pollution of waters to meet the "fishable/swimmable" goals of the Clean Water Act:
- National Pollution Discharge Elimination System (NPDES) Program CWA § 402 authorizes the issuance of NPDES permits to control discharges, including stormwater, from municipalities, industrial discharge facilities, and construction sites into U.S. navigable waters. These discharges are categorized as "point source discharges". In California, implementation of the NPDES is delegated to the State Water Resources Control Board (SWRCB) In the Morro Bay watershed, SWRCB mandates are in turn administered by the Central Coast RWQCB. USEPA may intervene to achieve NPDES permit requirement compliance, conduct inspections and issue administrative orders and Additionally, USEPA develops national penalties against violators if necessary. technology-based effluent regulations and publishes guidance on the applicability of the regulations. Limitations and standards are established for industrial facilities, publicly owned treatment works (POTWs), or other municipal sewage systems, that discharge or may discharge directly into U.S. waterways. The CWA requires dischargers to a POTW or other municipal sewage system to pre-treat their waste water. Pretreatment includes pollution prevention and waste reduction practices, as well as onsite and off-site pollution

- control technology. In the Morro Bay watershed, the Central Coast Regional Water Quality Control Board (RWQCB) administers the pre-treatment program for the EPA.
- The Total Maximum Daily Load (TMDL) process was established under CWA § 303(d) to address instream water pollution that continues even when best available technology has been applied. TMDLs provide for more stringent water quality-based controls when technology-based controls are inadequate to achieve State water quality standards. TMDLs establish the assimilative capacity of a waterbody, sources of pollution, allowable pollutant loadings and pollution reductions necessary to attain water quality standards for a water body.
- ♦ USEPA oversees the State's monitoring and assessment activities required by the Clean Water Act. Ambient water quality monitoring is required for California to receive funds pursuant to CWA Section 106. Water quality assessments must be reported biennially to Congress pursuant to CWA Section 305.
- ♦ Water Quality Standards USEPA is promulgating federal standards for California that will apply to Morro Bay. The State's Water Quality Objectives (Enclosed Bays and Estuaries of California Water Quality Objectives), or California Toxics Rule, was overturned by the courts.
- National Wetlands Program CWA § 404, administered jointly with the U.S. Army Corps of Engineers (ACOE), is the cornerstone of EPA's efforts to protect wetlands. Dredge and fill activities, which often impact wetlands, are regulated by "Section 404 permits" issued by the ACOE. EPA helps to develop the environmental guidelines by which permit application must be evaluated, and has authority to deny a permit if wetlands would be adversely affected. CWA § 309 provides authority to EPA and ACOE to impose administrative penalties for violations of Section 404 permits. EPA has developed an Administrative Penalty Policy which outlines procedures for establishing fines. When judicial action is pursued, violators may be required to restore sites and may be subject to payment of fines, imprisonment or both.
- NEPA Review NEPA requires consideration of the impacts on environmental resources caused by any federal action, including federally funded or permitted projects. It requires federal agencies to recognize and consider environmental amenities and values in the course of their decision-making, and to examine alternatives to the proposed action that minimize impacts and better safeguard environmental values. Environmental investigations carried out in accordance with NEPA are documented in an environmental assessment (EA) or environmental impact statement (EIS) prior to undertaking major federal actions that significantly affect the quality of the environment. EPA may prepare or review EAs or EISs.
- Ocean Dumping EPA, in consultation with the ACOE, establishes environmental impact criteria to help evaluate proposed projects involving the transport and disposal of dredged material into coastal waters and the ocean. EPA is responsible for designating and managing ocean dumping sites. Under MPRSA § 105, EPA can assess civil penalties and seek injunctive relief if sediments are dumped in the ocean illegally. The 1992

- Ocean Dumping Ban Act also prohibits the dumping of any industrial waste or sewage sludge into the ocean.
- Pesticides & Groundwater FEFRA, as amended, requires the registration of all pesticides sold and distributed in the United States. FIFRA, as amended, authorizes EPA to specify additional requirements in the licensing or registration and labeling of pesticide products that "threaten" ground and surface waters (based on an evaluation of test data showing that a pesticide has the potential to cause unreasonable adverse effects on humans, animals or the environment). Under the proposed SMP rule, EPA may prohibit use of 5 products identified in the rule unless a state, such as California, has an EPA-approved State Management Plan. No other actions are being taken for other 'leaching' pesticides at this time.
- Superfund EPA administers the Federal Superfund Program, pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), in cooperation with states and tribal governments. The Superfund Program identifies, investigates and cleans up hazardous waste sites. The program was established in 1980 in response to growing concern over health and environmental risks posed by hazardous waste sites. The federal Defense Fuel Support Point Estero Bay (now owned by Texaco), north of Toro Creek, is on EPA's current inventory of potential Superfund sites. Superfund has also completed assessments at three other sites—the Morro Bay Disposal Site and Pacific Gas and Electric Morro Bay Power Plant—and determined these sites are not eligible for placement on the EPA's National Priorities List. The RWQCB is the lead agency overseeing investigation and cleanup activities at these facilities.
- ♦ National Spill Prevention and Response USEPA works in partnership with the US Coast Guard to respond to emergency spills and to develop spill prevention, facility response, and national emergency response plans. These activities are authorized by CWA Section 311 and the Oil Pollution Act.
- ♦ National Hazardous Waste Control Program The purpose of this program, authorized by the Resource Conservation and Recovery Act, is to increase the safety of land disposal, promote reduction of solid wastes, and foster recycling. USEPA has the authority to investigate and prosecute (with civil or criminal penalties) those associated with wastes that threaten public health or the environment.
- ♦ Toxic Substances Control PCB treatment, storage, and disposal facilities are permitted under TSCA. EPA is authorized to require testing and data gathering for all other chemicals. If a company is creating or importing a new chemical it must be reported to EPA.
- Emergency Planning Community Right to Know— Companies that meet certain criteria are required to report emissions to EPA annually. EPA makes this data to the public through the toxic release data inventory and through other mechanisms.

B. Resource Management Activities/Programs

- ♦ Water Quality Criteria This program, authorized by CWA § 303, provides for development of state water quality criteria. USEPA has developed both methodologies and specific criteria to protect aquatic life and human health. State standards are set taking into consideration USEPA criteria, and are comprised of the use and value of the water body (e.g., public water supply; propagation of fish, shellfish and wildlife; recreational, agricultural, industrial, and navigational purposes), . In California, USEPA approves water quality standards developed by the SWRCB and the RWQCBs (contained in Basin Plans). If USEPA disapproves a standard, the agency indicates what changes must be made for the standard to be approved. If the State fails to make the required changes, EPA may promulgate a Federal standard applicable to the State. Pursuant to CWA § 303(d), the SWRCB and Central Coast RWQCB must list waters within the Central Coast Region, including the Morro Bay watershed, that do not meet established water quality standards (impaired water bodies).
- National Estuary Program (NEP) In 1995, Morro Bay became part of the NEP. The NEP was set up under CWA § 320 to develop comprehensive conservation and management plans (CCMPs) for estuaries of national significance. One of the principal goals of the NEP is to develop relationships between estuary uses, pollutant sources, water quality, and natural resources. In managing NEPs, EPA seeks to: (1) establish working partnerships among local, state and federal agencies; (2) transfer scientific/management information and expertise to program participants; (3) increase public awareness; (4) promote area-wide planning to control pollution and manage resources: and (5) oversee development and implementation of pollution reduction and control programs. [See also Section F (Planning) below.] Under the MBNEP, the EPA and representatives from local, State and federal agencies, academic and scientific institutions, industry, and citizen groups in Morro Bay will develop a CCMP. MBNEP participants define objectives for protecting the Morro Bay estuary, select the chief problems to be addressed in the Plan, and ratify a pollution control resource management strategy to meet each objective. In Morro Bay, EPA contributes to Central Coast RWQCB staff funding to develop the CCMP and other interagency guidance documents for the Morro Bay watershed. Preliminary work on these guidance documents became the initial documents and research required to prepare a Base Program Analysis for the MBNEP CCMP.
- Nonpoint Source (NPS) Pollution/CZARA Programs The CWA requires states to assess NPS pollution problems and causes within the state, to adopt management programs to control NPS pollution, and to implement the management programs. EPA must approve state programs for managing NPS pollution. In 1988, the EPA approved the SWRCB's Nonpoint Source Management Plan pursuant to CWA § 319. The Central Coast RWQCB is the primary State agency that implements NPS pollution program activities in the Morro Bay watershed. These activities include technical assistance, monitoring, grant funding and outreach and education. EPA and NOAA reviewed and recently approved with conditions California's Coastal Nonpoint Pollution Control

- Program (CNPCP) prepared by the SWRCB and California Coastal Commission pursuant to CZARA § 6217. EPA and NOAA also publish guidelines related to the requirements that California must meet in implementing its CNPCP.
- National Monitoring Program (NMP) This program provides funding and technical assistance to several nonpoint source pollution control projects. The projects in this program were selected to provide credible documentation of the feasibility of controlling nonpoint sources. Additionally, they should improve the technical understanding of nonpoint source pollution and the effectiveness of nonpoint source control technologies and approaches. These objectives are met through intensive monitoring and evaluation. The Morro Bay NMP Project was accepted into this program to study the rangeland NPS issues. The Morro Bay NMP is evaluating the effectiveness of a system of best management practices to control sediment and to improve water quality over a ten-year period. The project is being implemented by the RWQCB and Cal Poly University.
- ♦ Water Quality Assessment—USEPA oversees state's efforts to compile statewide water quality data for biennial reports required by Section 305(b) of the Clean Water Act. The Regional Board's prepare a "305(b) report" which generally categorizes water body classifications by degree of support of designated beneficial uses. The database software used by the Regional Boards is USEPA's Waterbody System (WBS). The Regional Boards and the SWRCB have maintained a "water quality assessment" database since 1989. The database contains information on water quality conditions and problems for many of the surface and ground waters of the State. The database is updated every two years.
- ♦ National Pollution Prevention Program —USEPA provides a national clearinghouse, technical support, and grants to promote pollution prevention, as authorized by the Pollution Prevention Act of 1990.
- ♦ Environmental Monitoring and Assessment Program (EMAP) EMAP is an interagency monitoring activity designed to evaluate the status and trends of ecological resources using a probability-based monitoring design. EMAP conducts surveys to assess the health of plants and animals, the quality of their surroundings, and presence of pollutants. Key indicators, representative of the general condition of a site's resources, are examined at designated sites. The indicators can address: (1) biotic integrity; (2) sediment and water quality; and (3) exposure of biota to pollutants.
- ▶ Index of Watershed Indicators (IWI) The IWI (www.epa.gov/surf/iwi) scores the health of more than 2,100 watersheds in the lower 48 states, including the Morro Bay watershed, according to 15 key factors. Seven indicators rank the condition of the aquatic resource, while eight assess the vulnerability of the watershed to future threats. Indicators include issuance of fish and wildlife consumption advisories, presence of contaminated sediments, conventional or toxic pollutants and number of aquatic or wetland species at risk. The IWI can help watershed managers make better decisions on strategies and priorities for environmental programs.

C. Finance Mechanisms

- ◆ Federal Water Pollution Control Program This program, as authorized by CWA Section 106, provides annual funding to California for the purpose of implementing programs to abate pollution of waters to meet the "fishable/swimmable" goals of the Clean Water Act.
- ♦ National Source Water Assessment USEPA is developing and administering a program to make loans available to support prevention programs to protect drinking water. This effort was provided for in the 1996 amendments to the Safe Drinking Water Act.
 - 1. Project Grants are available to a broad range of recipients for a wide spectrum of agency priorities, such as environmental justice, pollution prevention, watershed planning, nonpoint source pollution control implementation, environmental education, and environmental stewardship.
 - 2. Continuing Program Grants are baseline grants awarded primarily to support ongoing state and tribal air, water and waste programs. Grants are available under specific statutes (e.g., CWA § 106, Clean Air Act § 105, RCRA § 3011). Current examples of continuing grants to the State and the Regional Board for activities in or affecting the Morro Bay Watershed include: CWA § 104(b)(3) Wetlands Grant and Watershed Management Initiative Grant, CWA § 319 Nonpoint Source Implementation Grant, CWA § 205 Water Quality Planning Grant.
 - 3. Clean Water State Revolving Fund (CWSRF) Traditionally used to finance POTW construction projects, the CWSRF program can fund water quality improvement projects that address both point and nonpoint sources of pollution, including watershed-based estuary and nonpoint source management projects developed under the MBNEP CCMP. Although assistance is typically in the form of low-interest loans, the CWSRF is a flexible source of financing that can also provide loan guarantees, bond insurance, and refinancing of existing debt. In California, the CWSRF is managed by the SWRCB.
 - 4. Safe Drinking Water State Revolving Fund (SDWSRF) This fund is similar to the CWSRF but available for water supply treatment and pollution prevention related to drinking water.

EPA has funded or is currently funding the following activities in the Morro Bay watershed:

- CWA § 104(b)(3) funds are contributing to implementation of NPS pollution controls in the watershed, development of the MBNEP CCMP Base Program Analysis, and development of the Regional Board's Watershed Management Initiative Chapter (which includes Morro Bay as a priority watershed).
- CWA § 205(j) funds are contributing to a RWQCB study of abandoned mines in the Chorro Creek watershed. This study has identified chromium and nickel as metals of concern in the watershed and will ultimately result in recommendations for remediation These funds also provided an administrative coordinator for development of both a Morro Bay Management Plan and a CCMP for the MBNEP.

MB NEP Base Program Analysis, Vol. I

- CWA § 319 funds are contributing to agricultural and grazing best management practices (BMP) implementation projects, a long-term NPS national monitoring project to study BMP effectiveness, and State staff coordinators for watershed/estuary protection efforts.
- CWA § 604(b) funds are contributing to other Central Coast RWQCB planning efforts.

D. Other Non-Regulatory Programs

♦ Morro Bay National Estuary Program — Through the MBNEP, EPA provides technical assistance for watershed conservation and protection programs in Morro Bay. Additional goals related to managing the MBNEP include: establish working partnerships among federal, state, and local governments; transfer scientific/management information and expertise to program participants; and increase public awareness. •

F. Planning

IV. FUNDING

EPA is funded primarily through annual appropriations from the U.S. Congress.

V. ADMINISTRATION

EPA Region 9 in San Francisco is organized into four offices (Regional Administrator, Strategic Planning and Emerging Issues, Communication and Government Relations, and Regional Counsel) and six divisions covering major program activities (Air, Water, Waste Management, Superfund, Cross-Media, and Policy and Management). Most of the programs and functions that relate to protection of the Morro Bay Estuary reside in the Division of Water (the Division contains the following offices: Office of the Director, Monitoring and Assessment, Northern California, Southern California, CWA Standards and Permits, CWA Compliance, Drinking Water, Wetlands Regulatory, Ground Water, State, Tribal, and Municipal Programs). Divisions with functions less directly related to estuary protection include the Policy and Management Division and the Waste Management Division (including Pollution Prevention, several RCRA programs, Program Development, Compliance Assistance, Solid Waste Program, Underground Storage, Tank Program, and Information Management).

For further information, contact:

U.S. EPA, Region 9
Water Management Division, WTR-4
75 Hawthorne St.
San Francisco, CA 94105-3901
(415) 744-2013
http://www.epa.gov/region09 (Region 9)
http://www.epa.gov (National)

Morro Bay National Estuary Program (MBNEP)
1400 3rd Street
Los Osos, CA 93402
(805) 528-8126
http://www.epa.gov/owowwtr1/estuaries/test/
morro.htm (MBNEP information)

	Priority	problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
1	1	√.	1	1	1	CWA Section 404 permits (R)
			·			Section 10, Rivers and Harbor Act permits (R)
						Ocean Dumping (R)
√			1		1	Dredging Projects (RM)
					1	Aquatic Ecosystem Restoration Program (RM)
				1	1	 Project Modifications for Improvemen of the Environment Program (RM)
 					1	Beneficial Uses of Dredged Material Program (RM)
1	1	1	1	7	1	• Planning Assistance to States Program (F)
				V		Flood Plain Management Services Program (NR)
					1	Environmental Research (NR)

I. MISSION AND AUTHORITIES

ACOE's mission is to develop, control, maintain and conserve the Nation's waterways and wetlands. ACOE plans, designs, builds, and often operates and maintains projects that provide river and harbor navigation, flood control, water supply, hydroelectric power, environmental restoration, wildlife protection, and recreation. ACOE's program authorities related to estuary protection include: the Clean Water Act (CWA); the Rivers and Harbors Act (particularly Sections 9 and 10), the Marine Protection, Research, and Sanctuaries Act (MPRSA) Section 103; the Water Resources Development Act (WRDA); and the Flood Control Act.

II. JURISDICTION

ACOE's jurisdiction is broadly defined as the "waters of the United States" and associated resources. The regulatory geographic responsibilities of the ACOE Districts are generally based upon water basins. The Los Angeles District ACOE has jurisdiction in Morro Bay and its watershed. The Ventura Field Office of the District's Regulatory Branch performs most of the estuary protection functions.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

[➤] Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- Section 404 Permits CWA § 404 requires approval prior to discharging dredged or fill materials into waters of the United States. The purpose of the Section 404 program is to insure that the physical, biological, and chemical quality of the Nation's waters is protected from irresponsible and unregulated discharges of dredged or fill material that could permanently alter or destroy these valuable resources. Anyone in violation of the Section 404 Program, either by conducting an unauthorized activity or by violation permit conditions, is subject to civil or criminal action or both. CWA § 309 gives ACOE and EPA the authority to impose administrative penalties. When judicial action is pursued, violators may be required to restore sites and may be subject to payment of fines, imprisonment or both. Typical activities requiring Section 404 permits include:
 - Depositing of dredged or fill material in waters of the U.S. or adjacent wetlands (commonly associated with activities such as port development and channel construction and maintenance)
 - Site development fill to create residential, commercial, or recreational developments;
 - Construction of revetments, groins, breakwaters, levees, dams, dikes, and weirs.

These permits must be reviewed by, and consistent with recommendations of, DFG regarding impacts to fish and wildlife. These permits can only be issued if "water quality certification" is provided by the SWRCB via review by RWQCB. In some cases, these permits are also reviewed by the SLC.

- ♦ Section 10 Permits Section 10 of the Rivers and Harbor Act of 1899 requires approval prior to the accomplishment of any work in or over navigable waters of the United States, or which affects the course, location, condition or capacity of such waters. Typical activities requiring Section 10 permits are:
 - Construction of piers, wharves, bulkheads, dolphins, marinas, ramps, floats, intake structures, and cable or pipeline crossings;
 - Dredging or excavation.

These permits must be reviewed by, and consistent with recommendations of, DFG regarding impacts to fish and wildlife. In some cases, these permits are also reviewed by the SLC.

• Ocean Dumping — Under authority of the MPRSA, the ACOE, in consultation with EPA, establishes environmental impact criteria to assist in evaluating proposed projects that involve the transport and dumping of dredged material into coastal waters and the ocean. MPRSA primarily regulates the dumping of wastes into the oceans and provides funding for ocean research programs and ocean habitat sanctuaries. The 1992 Ocean Dumping Ban Act prohibits the dumping of any industrial waste or sewage sludge into the ocean.

B. Resource Management Activities/Programs

- ◆ Dredging Projects The ACOE conducts regular dredging at the mouth of Morro Bay to maintain the channel in a passable and safe state Proposed dredging activities in Morro Bay include expansion by the Department of Parks and Recreation of the small boat marina in Morro Bay, and proposed construction of new waterfront buildings in the City of Morro Bay. The ACOE provides notification of their dredging activities to the RWQCB.
- ♦ Aquatic Ecosystem Restoration Program WRDA Section 206 authorizes the ACOE to carry out aquatic ecosystem restoration projects that will improve the quality of the environment, are in the public interest, and are cost-effective. Non-federal interests must contribute 35% of the cost of construction and 100% of the cost of operation, maintenance, replacement, and rehabilitation. Individual projects are limited to \$5 million in construction costs. This program received initial funding of \$6 million in Fiscal Year 1998.
- ◆ Project Modifications for Improvement of the Environment Program WRDA Section 1135 authorizes a program of modifications to water resources projects constructed by the ACOE for the improvement of the environment. Projects that address degradation of the quality of the environment by an ACOE project may also be undertaken. Non-federal interests must contribute 25% of the cost of construction and usually 100% of the cost of operation, maintenance, replacement, and rehabilitation. Up to 80% of the non-federal share may be provided as work-in-kind. Individual projects are limited to \$5 million.
- ♦ Beneficial Uses of Dredged Material Program WRDA Section 204 authorizes projects to protect, restore, and create aquatic and ecologically related habitats, including wetlands, in connection with dredging an authorized federal navigation project. Non-federal sponsors pay 25% of the project cost and 100% of operation, maintenance, replacement, and rehabilitation costs. ACOE divisions have approval authority for individual projects with an estimated cost of less than \$5 million; larger projects are approved by ACOE headquarters.

C. Finance Mechanisms

♦ Planning Assistance to States Program — WRDA Section 22 provides authority for the ACOE to assist States, local governments, and other non-federal entities in the preparation of comprehensive plans for the development, use, and conservation of water and related land resources. The program can encompass many types of studies that address water resources issues. Types of studies conducted in recent years under the program include the following: coastal zone management/protection studies; harbor/port studies; wetlands evaluation studies; environmental conservation/restoration studies; flood plain management studies; water quality studies; and water supply and demand studies. Needed planning assistance is determined by individual states. Typical studies are only planning level of detail; they do not include detailed design for project construction. The studies generally involve the analysis of existing data for planning purposes using standard engineering techniques although some data collection is often necessary. Individual studies, of which there may be more than one per state, generally cost \$25,000 to \$75,000 and are cost-shared on a 50% federal-50% nonfederal basis. The ACOE has not funded any projects in the Morro Bay watershed in recent years.

D. Other Non-Regulatory Programs

- Flood Plain Management Services (FPMS) Program The objectives of the FPMS Program are to foster public understanding of the options for dealing with flood hazards, and to promote prudent use and management of the Nation's flood plains. The FPMS Program provides a range of technical services and planning guidance to support effective flood plain management, including: (1) interpreting site-specific data on obstructions to flood flows; (2) providing information on natural and cultural flood plain resources of note; and (3) providing assistance and guidance in the form of "Special Studies" on aspects of flood plain management planning (Special Studies can range from helping a community identify present or future flood plain areas and related problems, to a broad assessment of which of the various remedial measures may be effectively used). Upon request, the ACOE provides program services to non-federal public agencies, including State, regional, and local governments without charge.
- ♦ Environmental Research The ACOE conducts most of its environmental research through the Waterways Experiment Station in Mississippi. ACOE research programs include the following: (1) the Aquatic Plant and Assistance Program develops techniques for keeping aquatic vegetation at desirable levels; (2) the Wetlands Research Program refines techniques for wetlands delineation, wetlands evaluation, wetlands restoration and development, and wetlands management; (3) the Wetland Regulatory Assistance Program provides assistance to ACOE districts in wetland delineation and evaluation; and (4) several Dredging Research and Assistance Programs study beneficial uses of dredged material (including for wetland and terrestrial habitat development).

IV. ADMINISTRATION

Morro Bay and its watershed are located in the jurisdiction of the Los Angeles District ACOE. This office includes about 900 staff members and is broken down into four divisions: Program and Project Management, Planning, Engineering, and Contract Operations. The Ventura Field Office of the District's Regulatory Branch performs most of the estuary protection functions.

For further information, contact:

U.S. Army Corps of Engineers Los Angeles District Regulatory Branch Ventura Field Office 2151 Alessandro Dr., Suite 255 Ventura, CA 93001 (805) 641-1127 or 2935

see also http://www.usace.army.mil

U.S. Army Corps of Engineers Los Angeles District Planning Division Coastal Resources Branch P.O. Box 532711 Los Angeles, CA 90053-2325 (213) 452-3821 or 3824 FAX: (213) 452-4204

e-mail: hly@spl.usace.army.mil

	Priority	problems	addressed	¹(√) *	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy	Reduced	Habitat	(relating to the priority problems)		
Seament	Daciella	Manients	Metals +	Flow	Loss			
				1	√	• Endangered Species Protection (R)		
					✓	• Fish and Wildlife Protection (R)		
					√	Dredging & Waterway Modification		
		·				(R)		
						Enforcement (R)		
					1	Coastal Ecosystem Program (RM)		
					1	Environmental Contaminants Program		
						(RM)		
					1	Fishery Resources Program (RM)		
					1	• Irrigation Drainwater Program (RM)		
					1	Migratory Bird/Waterfowl Protection		
						(RM)		
					1	 National Wildlife Refuge System (RM 		
					1	Toxic Pollutant/Spill Response &		
						Natural Resource Damage Assessment		
				<u> </u>		(RM)		
					√	Federal Aid programs (F)		
					-	National Wetlands Inventory (NWI)		
				· ·		(NR)		
✓	✓	1		 	1	Nonpoint Source Pollution Projects		
				 		(NR)		
✓	✓	√	1	1	1	Contaminant Prevention Education		
	1					(NR)		

I. MISSION AND AUTHORITIES

The mission of the USFWS is to conserve, protect, and enhance fish and wildlife habitats. The Service's major responsibilities are for migratory birds, endangered species, certain marine mammals, and freshwater and anadromous fish. Program authorities related to estuary protection include the federal Endangered Species Act (FESA), Fish and Wildlife Coordination Act, Migratory Bird Treaty Act, National Wildlife Refuge System Act, Clean Water Act (CWA), Estuary Protection Act, Marine Mammal Protection Act, and Land and Water Conservation Fund Act.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

II. JURISDICTION

The proponent of any project in which a federal agency is involved in licensing, permitting or funding must consult with the USFWS to determine potential effects on listed species and/or their habitat. This rule applies to potential effects on marine mammals, non-commercial fish, wild birds, endangered species and critical habitats within the jurisdiction of the United States [other than marine species and habitats protected by the National Marine Fisheries Service (NMFS)].

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

- Endangered Species Protection The FESA is administered by both USFWS and NMFS. USFWS's administration of the FESA both protects listed species and their ecosystems, and implements actions to recover and restore species to full reproductive capacity. Examples of USFWS activities pursuant to the FESA are listed below.
 - Listing of Endangered/Threatened Species: Using the best scientific evidence available, the USFWS identifies species that appear to be endangered (in danger of extinction throughout all or a significant portion of its range) or threatened (in danger of becoming endangered in the foreseeable future). After review by scientists and opportunities for public comment, species that meet FESA-established criteria are placed on the Interior Department's official List of Endangered and Threatened Wildlife and Plants. The Act also provides for the designation of critical habitats for endangered and threatened species, as needed. Once listed as federally threatened or endangered species, taking (including harassment) is prohibited unless otherwise approved by the USFWS. A similar process, administered by the California Department of Fish and Game, occurs on the State level, pursuant to the California Endangered Species Act.
 - Recovery Plans: USFWS biologists work with scientists from other federal agencies, State agencies, universities, and private organizations to develop "recovery plans" that identify actions needed to save listed species and restore their numbers. Recovery programs may include research, habitat preservation and management, captive breeding, law enforcement, reintroduction of depleted species into suitable areas of their historic range, and other activities. USFWS is the primary federal agency responsible for the protection and recovery of threatened and endangered populations of coastal birds, and provides a supporting role in the recovery of sea turtles.
 - Section 7 Consultation: Pursuant to FESA Section 7, the USFWS consults with other federal agencies and renders "biological opinions" on the effects of proposed federal projects on endangered species. Service biologists recommend ways for development projects to avoid harm to endangered species. This process helps to ensure that projects authorized, funded or carried out by federal agencies do not jeopardize the species' existence or result in habitat deterioration, including actions

- that would eliminate, degrade, or make less accessible any of the physical or biological features essential to the conservation of the species.
- Habitat Conservation Plans: These plans are designed to avoid or resolve conflicts between private development projects and the protection of an endangered species. If a private development project is considered to have potentially harmful effects on an endangered species, a Habitat Conservation Plan can be developed to include long-term measures to protect the species while allowing the development to proceed.
- Fish and Wildlife Protection Under authority of the Fish and Wildlife Coordination Act, the USFWS ensures that fish and wildlife concerns are considered equally with other water resource interests (e.g., navigation, landfill, hydroelectric power generation, flood control, etc.) whenever a federal agency plans, licenses, or permits a hydromodification project. The Act empowers USFWS and/or NMFS to review and comment on the potential adverse impact on fish and wildlife and their habitat of all new projects and federally permitted projects that affect navigable waters. This authority covers projects permitted under CWA § 404.
- ♦ Dredging & Waterway Modification CWA § 404 requires that the U.S. Army Corps of Engineers consult with the USFWS whenever a permit is requested for the discharge of dredged or fill material into U.S. waters. USFWS reviews dredging permit applications and provides comments to the Corps on the potential effects of proposed activities on fish and wildlife habitat. The USFWS also has the authority to control activities that may affect the habitat of endangered or threatened species.
- ♦ Enforcement USFWS agents/inspectors enforce treaty obligations and federal wildlife laws that protect endangered species, migratory birds, certain marine mammals, and fisheries.

B. Resource Management Activities/Programs

- Coastal Ecosystem Program The Coastal Ecosystem Program is an integral component of all USFWS's efforts, activities and authorities related to the conservation of coastal resources. The Program's activities involve tailoring individual bay/estuary efforts to meet the challenges of the watersheds in which the efforts occur. This process includes seven functions: (1) coordinate USFWS activities in the watershed; (2) develop partnerships to accomplish coastal habitat restoration projects; (3) compile and manage existing data; (4) assist with the identification of priority resource needs and solutions; (5) identify data gaps; (6) develop status and trend information; and (7) provide public outreach and education activities.
- ♦ Environmental Contaminants Program (ECP) The ECP directs efforts to identify and assess contaminant effects on fish and wildlife in order to prevent, reduce, and/or eliminate contamination problems. The program also documents the interrelationships between contaminants and fish and wildlife impacts (i.e., fate and effects). ECP activities are integrated into other USFWS programs and activities. For example, USFWS responds to and assesses the impacts of oil spills, point/nonpoint source pollution, and

hazardous materials in coastal areas. In Morro Bay, USFWS has been working with the SLC to prevent pollution from derelict vessels. The ECP also includes efforts to repair damages to living resources at Superfund sites and other contaminated or polluted habitats. USFWS also conducts research for NOAA on marine debris ingestion rates and probable effects on seabirds, and cooperates with State agencies to educate fisherman and boaters on the hazards of marine debris. The CWA allows USFWS to monitor pesticides and toxic chemicals to develop and provide information on the build-up of persistent chemicals and pollutants in fish and wildlife populations.

- Fisheries Resource Program This program allows the USFWS to operate national fish hatcheries and to conduct programs to conserve and restore nationally significant fisheries. Through the Recreational Fisheries Stewardship Initiative, the USFWS works to strengthen the partnership among State, federal, and tribal governments, the fishing industry, and private fishery conservation groups to conserve and enhance the Nation's recreational fisheries.
- ◆ Irrigation Drainwater Program Under this program, USFWS is determining the causes and degree of problems associated with excessive levels of micronutrients in irrigation wastewaters. Controls and alternatives to mitigate these problems are under development.
- Migratory Bird & Waterfowl Protection Because many bird species fly thousands of miles in their annual migrations, they cannot be effectively conserved by any single state or nation, but only through cooperative efforts. Through the Migratory Bird Program and the North American Waterfowl Management (NAWM) Plan, USFWS cooperates with a broad array of partners to ensure the conservation of many species of coastal migratory birds, including waterfowl, and other water and shorebirds. For example, the USFWS regulates hunting of migratory birds, studies populations, and acquires and manages many national wildlife refuges. The NAWM Plan is a long-term program to preserve and restore habitat for waterfowl and other wildlife.
- National Wildlife Refuge System The USFWS acquires, protects and manages unique ecosystems necessary to sustain fish and wildlife, including migratory birds and endangered species. Morro Bay is not a part of the National Wildlife Refuge System.
- Toxic Pollutant/Spill Response & Natural Resource Damage Assessment (NRDA) The USFWS responds to emergency situations, such as oil and other hazardous spills that may affect wildlife in an area. USFWS staff participate in the Regional Response Team, which first attempts to deter wildlife from entering a contaminated area, then attempts to rescue and rehabilitate oiled wildlife. Completion of the USFWS's National and Regional Spill Response Contingency Plans will focus Service efforts on fish and wildlife response actions and spill management. The Service Incident Command System (ICS) management system will help to streamline planning efforts for regional involvement in the area contingency planning process as required by the federal Oil Pollution Act.

Pursuing financial compensation for the public is a key aspect of the USFWS Environmental Contaminants program role in the NRDA program, which also seeks

restoration of lost or injured trust resources as a result of an oil or chemical spill. The USFWS is the only federal agency with trustee responsibility for both coastal and inland spills. Most of these natural resource damage assessments and restorations represent cooperative joint efforts with other federal, State, tribal trustees, private citizens groups, and responsible parties.

C. Finance Mechanisms

- Federal Aid Programs USFWS Region 1 administers several federal aid grants which are issued primarily to state fish and wildlife agencies. These grants, identified by their enabling Acts, include those listed below.
 - Grants issued pursuant to the Clean Vessel Act of 1992 are used to provide pumpout
 and dump stations for boaters to dispose of human waste in an environmentally sound
 manner. Pumpout stations are used to pump waste out of recreational boat holding
 tanks. Dump stations area used to empty portable toilets.
 - The Coastal Wetlands Planning, Protection and Restoration Act authorizes the USFWS to grant funds to coastal states to carry out wetlands conservation projects. National Coastal Wetlands grants are available for (1) the acquisition of interests in coastal lands or waters, and (2) the restoration, management or enhancement of coastal wetlands ecosystems. Eligible projects must provide for long-term conservation of such lands and waters and the hydrology, water quality, and fish and wildlife dependent thereon. The Small Wetlands Acquisition Program, administered by USFWS, offers landowners the opportunity to sell wetlands and surrounding upland area outright, or to enter into a perpetual easement agreement that places a restriction on the wetlands. Lease and purchase prices under this program reflect current market conditions.
 - The Secretary of the Interior provides funding under FESA Section 6 to states for the purpose of conserving endangered or threatened species. Grants may be used to fund endangered/threatened species projects such as fisheries and habitat improvement projects.
 - Partnerships for Wildlife Act funds are used to establish a partnership among the USFWS, designated state fish and wildlife agencies, and private organizations and individuals: (1) to carry out wildlife conservation and appreciation projects to conserve the entire array of diverse fish and wildlife species, and to provide opportunities for the public to use and enjoy these species through non-consumptive activities; (2) to enable designated state agencies to respond more fully and use their statutory and administrative authorities by carrying out wildlife conservation and appreciation projects; and (3) to encourage private donations, under the leadership of the States and National Fish and Wildlife Foundation, to carry out wildlife conservation and appreciation projects. Through the Partners for Wildlife Program, USFWS assists private land owners in the restoration of wetlands and other fish and wildlife habitat. Additional funds for the purchase of wetlands are available through USFWS's Land and Water Conservation Fund.

- Sport Fish Restoration Act funds are used to increase sport fishing and recreational boating opportunities through wise investment of angler's and boater's tax dollars in state sport fish projects, including fishery research, management, and development; fishing and boating access improvements; and aquatic education.
- Wildlife Restoration Act funds are used in part for the restoration, conservation, management and enhancement of wild birds and wild mammals, and the provision for public use of the benefits from these resources.

D. Other Non-Regulatory Programs

- ♦ National Wetlands Inventory (NWI) The NWI was established in 1974 to develop and disseminate data on the characteristics and extent of the Nation's wetlands. The NWI provides paper and digital wetland maps at various scales. NWI maps are for sale and can be obtained by calling 1-800-USA-MAPS; NWI also provides free Internet access to its digital map data files at http://www.nwi.fws.gov.
- Nonpoint Source (NPS) Pollution Projects USFWS focuses attention on NPS pollution problems in a number of areas. For example, USFWS has conducted research to define the scope and effect of pollutants from urban and agricultural runoff, mining, silviculture, and hydromodification on fish and wildlife species and their habitats. USFWS has also conducted special information and education efforts to encourage farm owners to participate in the USDA Conservation Reserve Program, and has worked with the Agricultural Extension Service to develop a pamphlet emphasizing the benefits of riparian vegetation in reducing NPS pollution. USFWS routinely provides recommendations on best management practices (BMPs) to control NPS pollution when reviewing permit/license applications, federal project construction and operation plans, resource management plans, conservation easements, and other types of land management activities. Measures to mitigate damage to fish and wildlife resources or their habitats are included in these recommendations.
- ♦ Contaminant Prevention Education The USFWS furthers its efforts in contaminant prevention by providing technical and legal training for personnel in the contaminants profession and associated disciplines including law enforcement, fisheries, and refuges. Participants in recent sessions—including Pesticide Effects to Fish and Wildlife Resources, Environmental Investigations, and Wildlife Mortality Workshop included personnel from federal, state, tribal, and county agencies and the private sector. This interdisciplinary, interagency approach emphasizes that contaminant prevention is most effectively and efficiently accomplished through cooperation and collaboration.

IV. ADMINISTRATION

USFWS functions are conducted out of a Headquarters office, Regional Offices, and staff offices. The Morro Bay Estuary is included in Region 1 which encompasses the western coastal states. Most of the functions related to the Morro Bay Estuary are performed out of the Office of Ecological Services in Ventura. This office primarily performs review of permits, grants administration and regulatory activities. For further information, contact:

MB NEP Base Program Analysis, Vol. I

USFWS, Office of Ecological Services 2493 Portola Rd., Suite B Ventura, CA 93003 (805) 644-1766

USFWS, Pacific Northwest Region (Region 1) 911 NE 11th Ave.
Portland, OR 97232-4181 (503) 231-6121 http://www.r1.fws.gov

USFWS Headquarters 1849 C St., NW Washington, DC 20240 (202) 208-5634 http://www.fws.gov

	Priority	problems		Key programs/activities/etc.		
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
√	1	√	1	1	✓	Hydrologic Unit Area Project (RM)
						Coordinated Resource Management and Planning (CRMP) Process (RM)
√					V	Resource Conservation & Development Program (RM)
			_			 Small Watershed Program and Flood Prevention Program (RM)
✓	✓	✓	✓	√	✓	 Watershed Surveys & Planning (RM)
						• Conservation Reserve Program (F)
✓	✓	1			1	 Environmental Quality Incentives Program (F)
√		✓		.√	1	Wildlife Habitat Incentives Program (F)
√	1	1	√	1	√	Wetlands Reserve Program (NR)
√	1	J	1	1	1	 Conservation Technical Assistance (NR)
✓	1	1	1	1	1	 Conservation of Private Grazing Land Initiative (NR)
√		√				Outreach/Assistance for Socially Disadvantaged Farmers/Ranchers (N)

I. MISSION AND AUTHORITIES

NRCS's mission is to provide leadership in a partnership effort to help people conserve, improve, and sustain natural resources on private land. NRCS is USDA's primary technical agency in the area of soil and water conservation, and in water quality. It is responsible for developing and carrying out national soil and water conservation programs, and assisting in agricultural pollution control, environmental improvements, and rural community development. Critically important to NRCS's conservation progress in the West is the agency's relationship with partners across the region, especially conservation districts and state, tribal, and island conservation agencies. NRCS program authorities related to estuary protection include the 1985, 1990, and 1996 Farm Bills, Watershed and Flood Prevention Act, Food Security Act (as amended by the Food, Agriculture, Conservation and Trade Act of 1990), Federal Agriculture Improvement and Reform Act of 1996, and wetlands requirements of CWA Section 404.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

II. JURISDICTION

NRCS is a federal agency that relies on local/county conservation districts, other State and federal agencies, volunteers, agricultural and environmental groups, and professional societies. Most of its employees serve in USDA's network of local- and county-based offices.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement regulatory activities or programs.

B. Resource Management Activities/Programs

Morro Bay Watershed Hydrologic Unit Area Project -- The Morro Bay Watershed Hydrologic Unit Area (HUA) Project is a cooperative program by local, county, state and federal agencies, private interest groups, concerned citizens and landowners within the Morro Bay watershed to reduce nonpoint source pollution an sedimentation of the Bay. Funded by USDA, the Morro Bay HUA project began in 1991 with cooperating efforts between principal agencies including the Natural Resources Conservation service (NRCS), the University of California Cooperative Extension (UCCE), the Farm Service Agency (FSA) and the Coastal San Luis Resource Conservation District (CSLRCD).

The objective of the Hydrologic Unit Area Project is to improve water quality and quantity in the Morro Bay Estuary and to maintain and improve the designated beneficial used in the estuary and the watershed.

- 1. Reduce accelerated erosion and improve sustainability of riparian and upland agroecosystems. The clientele are private ranchers who manage both pubic and private lands in the watershed and public land managers.
- 2. Reduce accelerated erosion and improve water and pesticide management on cropland. Among clientele are limited resource farmers and minority groups.
- 3. Reduce rural and urban non-point source pollution by assisting planning agencies with review of drainage, erosion, and sediment control plans for parcel maps and site plans. The focus of the assistance will be to improve water quality and preserve rime and locally important farmlands by training the agency personnel on erosion and sediment control planning and assisting them in the effort to preserve farmlands.
- 4. Reducing erosion, water, and nutrient problems associated with small rural ownership's by assisting the landowners with information, education, and technical assistance.
- 5. Increase the awareness, understanding, and appreciation among youth of the importance and value of watershed environments.
- 6. Develop a 4-H Watershed Environment Project suitable for delivery, through non-formal educational settings to youth in grades 4-12.

7. Provide research-based educational materials to youth and adults that address a natural resource area of nationwide concern and where no similar materials exist.

To date more than 225 conservation practices include stream bank protection, buffer strips, riparian fencing, floodway seedings, livestock water development, cross fencing, fish habitat improvement, time controlled grazing, windbreaks, grassy waterways and many, many more. The HUA team has held two Rangeland Water Quality Shout Courses for local landowners. The NRCS worked with Camp San Luis Obispo to develop a Land Management Plan for the camp. The NRCS assisted the County to successfully close the Los Osos landfill after the County's first attempt failed. The NRCS was able to secure a permanent wetland reserve easement on the 112 acre Martines property adjacent to Los Osos and Warden Creeks. This land provides wildlife habitat as well as being a sediment trap. The NRCS had provided the technical and financial assistance to the Chorro Flats Enhancement Project. The Chorro Flats Enhancement Project reconnected Chorro Creek with its historic floodplain, thereby reducing sediment delivery to Morro Bay and creating 85 acres of habitat while permanently protecting 45 acres for agriculture.

- ♦ Coordinated Resource Management and Planning (CRMP) Process The NRCS, local Resource Conservation Districts (RCDs), and the University of California Cooperative Extension have connections and expertise to assist in organizing a CRMP effort for a local area. The CRMP process is a form of community-based resource planning that attempts to bring federal, State and local agencies together with interested local groups to identify resource problems, organize information, and develop recommended programs and plans to better manage their resources.
- Resource Conservation & Development (RC&D) Program The purpose of the RC&D program is to encourage resource conservation, guide community development and utilization of natural resources, support water management, and to enhance the environment in authorized RC&D areas. It improves the capability of State and local governments and local nonprofit organizations in rural areas to plan, develop and carry out programs for resource conservation and sustained utilization. The program also establishes or improves coordination systems in rural areas. Current program objectives focus on improvement of quality of life achieved through natural resources conservation and community development which leads to sustainable communities, prudent planned utilization, management and conservation of natural resources. Authorized RC&D areas are locally sponsored areas designated by the Secretary of Agriculture which qualify for RC&D technical and financial assistance program funds. NRCS can provide grants for land conservation, water management, community development, and environmental needs in authorized RC&D areas. The office of the Central Coast RC&D Council is located in Morro Bay.
- Small Watershed Program and Flood Prevention Program The Small Watershed Program works through local government sponsors and helps participants solve natural resource and related economic problems on a watershed basis. Projects include watershed protection, flood prevention, erosion and sediment control, water supply, water quality, fish and wildlife habitat enhancement, wetlands creation and restoration, and

public recreation in watersheds of 250,000 or fewer acres. Both technical and financial assistance are available. This program is not utilized in the Morro Bay watershed at the present time.

Watershed Surveys and Planning — The purpose of the program is to assist Federal, State, and local agencies and tribal governments to protect watersheds from damage caused by erosion, floodwater, and sediment and to conserve and develop water and land Resource concerns addressed by the program include water quality, opportunities for water conservation, wetland and water storage capacity, agricultural drought problems, rural development, municipal and industrial water needs, upstream flood damages, and water needs for fish, wildlife, and forest-based industries. Types of surveys and plans include watershed plans, river basin surveys and studies, flood hazard analyses, and flood plain management assistance. The focus of these plans is to identify solutions that use land treatment and nonstructural measures to solve resource problems. The Watershed and Flood Prevention Act authorized this program. Prior to fiscal year 1996, small watershed planning activities and the cooperative river basin surveys and investigations authorized by Section 6 of the Act were operated as separate programs. The 1996 appropriations act combined the activities into a single program entitled the Watershed Surveys and Planning program. Activities under both programs are continuing under this authority. This group prepared the 1989 "Erosion and Sediment Study" and the "Morro Bay Watershed Enhancement Plan."

C. Finance Mechanisms

- Conservation Reserve Program (CRP) In conjunction with the FSA, NRCS administers the CRP, which is designed to remove highly erodible croplands from production, reduce sedimentation in streams and lakes, improve water quality, establish wildlife habitat, and enhance forest and wetland resources. CRP encourages farmers to convert highly erodible cropland or other environmentally sensitive acreage to vegetative cover (e.g., tame or native grasses, wildlife plantings, trees, filterstrips, or riparian buffers). Land owners wishing to enter any of their land in the CRP sign ten-year agreements with the Department of Agriculture stating that they will not perform any activities on the land for those ten years. Participants receive annual payments, and 50% cost sharing is provided to establish the vegetative cover. Over 100,000 acres in SLO County are enrolled in this program, however non are in the Morro Bay Watershed.
- Environmental Quality Incentives Program (EQIP) The EQIP provides technical, educational, and financial assistance to eligible farmers and ranchers to address soil, water, and related natural resource concerns on their lands in an environmentally beneficial and cost-effective manner. The program provides assistance to farmers and ranchers in complying with Federal, State, and tribal environmental laws, and encourages environmental enhancement. The program is funded through the Commodity Credit Corporation. The purposes of the program are achieved through the implementation of a conservation plan which includes structural, vegetative, and land management practices on eligible land. Five- to ten-year contracts are made with eligible producers. Cost-share payments may be made to implement one or more eligible structural or vegetative

practices, such as animal waste management facilities, terraces, filter strips, tree planting, and permanent wildlife habitat. Incentive payments can be made to implement one or more land management practices, such as nutrient management, pest management, and grazing land management. Fifty per cent (50%) of the funding available for the program will be targeted at natural resource concerns relating to livestock production. The program is carried-out primarily in priority areas that may be watersheds, regions, or multi-state areas, and for significant statewide natural resource concerns that are outside of geographic priority areas. Available but not being tapped into in the Morro Bay Watershed.

♦ Wildlife Habitat Incentives Program (WHIP) — WHIP provides financial incentives to develop habitat for fish and wildlife on private lands. Participants agree to implement a wildlife habitat development plan and USDA agrees to provide cost-share assistance for the initial implementation of wildlife habitat development practices. USDA and program participants enter into a cost-share agreement for wildlife habitat development. Available but not being tapped into in Morro Bay Watershed.

D. Other Non-Regulatory Programs

- Wetlands Reserve Program (WRP) The WRP is a voluntary program, administered by NRCS and the FSA, to restore wetlands. Areas of farmed wetlands and formerly converted cropland are the principal wetland types expected to be placed into the Participating landowners can establish conservation easements of either permanent or 30-year duration, or can enter into restoration cost-share agreements where no easement is involved. In exchange for establishing a permanent easement, the landowner receives payment up to the agricultural value of the land and 100% of the restoration costs for restoring the wetlands. The 30-year easement payment is 75% of what would be provided for a permanent easement on the same site and 75% of the restoration cost. The voluntary agreements are for a minimum 10-year duration and provide for 75% of the cost of restoring the involved wetlands. Easements and restoration cost-share agreements establish wetland protection and restoration as the primary land use for the duration of the easement or agreement. All lands accepted into the Wetland Reserve Program will have to be maintained according to a wetland restoration plan for the life of the easement. In all instances, landowners continue to control access to their land. This program has been used twice in the Morro Bay Watershed. The Chorro Flats Project and the Los Osos Creek Wetland Reserve.
- ♦ Conservation Technical Assistance (CTA) This program helps land users, communities, and local, State and federal agencies to plan and implement conservation systems. These systems help to reduce erosion, improve soil and water quality, improve and conserve wetlands, enhance fish and wildlife habitat, improve air quality, reduce upstream flooding, and improve the condition of pasture, range, and woodlands. Objectives of the CTA program are:

MB NEP Base Program Analysis, Vol. I

- to assist individual landusers, communities, conservation districts, and other units of State and local government and Federal agencies to meet their goals for resource stewardship and assist individuals to comply with State and local requirements.
- to assist agricultural producers to comply with the highly erodible land (HEL) and wetland (Swampbuster) provisions of the 1985 Food Security Act as amended by the 1990 Food, Agriculture, Conservation and Trade Act, the 1966 Federal Agriculture Improvement and Reform Act, and CWA § 404 wetlands requirements. NRCS makes HEL and wetland determinations and helps land users develop and implement conservation plans.
- to provide technical assistance to participants in USDA cost-share and conservation incentive programs.
- to collect, analyze, interpret, display, and disseminate information about the condition and trends of the Nation's soil and other natural resources so that people can make good decisions about resource use and about public policies for resource conservation.
- to develop effective science-based technologies for natural resource assessment, management, and conservation.

This is the basic program that provides NRCS staff time and effort to participate in the NEP.

- ♦ Conservation of Private Grazing Land Initiative (CPGL) The CPGL initiative is intended to ensure that technical, educational, and related assistance is provided to those who own private grazing lands by increasing NRCS staff at the local level. It is not a cost share program. Improved technical assistance will offer opportunities for: better grazing land management; protecting soil from erosive wind and water; using more energy-efficient ways to produce food and fiber; conserving water; providing habitat for wildlife; sustaining forage and grazing plants; using plants to sequester greenhouse gases and increase soil organic matter; and using grazing lands as a source of biomass energy and raw materials for industrial products. This program has minimal impact in the Morro Bay Watershed. Appropriately trained NRCS conservationists are already available and relying on other programs to provide technical assistance on grazing issues.
- Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers Section 2501 of the Food, Agriculture, Conservation, and Trade Act requires the Secretary of Agriculture to provide outreach and technical assistance to socially disadvantaged farmers and ranchers. Administration of the program was transferred to the NRCS from the FSA beginning in fiscal year 1997. The overall goal of the program is to increase the number of small or limited resource and minority producers and directly improve the farm income of these producers. Objectives are to make grants and enter into agreements with community-based organizations and educational institutions to provide outreach and technical assistance. This program is under utilized in the Morro Bay Watershed but it is unclear how extensive the need is in this watershed.

IV. ADMINISTRATION

NRCS activities are conducted primarily from Field Offices, as well as State, Regional, and Major Land Resource Offices. NRCS has a Field Office in the Morro Bay watershed that provides technical assistance/education and administers financial incentive programs for landowners and farmers in the watershed.

For further information, contact:

NRCS, Morro Bay Field Office 545 Main Street, Suite B-1 Morro Bay, CA 93442 (805) 772-4391

NRCS California State Office 2121-C Second St., Suite 102 Davis, CA 95616 (530) 757-8200 http://www.ca.nrcs.usda.gov

NRCS, Templeton Service Center 65 Main Street, Suite 108 Templeton, CA 93465 NRCS, West Regional Office 650 Capitol Mall, Room 7104 Sacramento, CA 95814-4706 (916) 491-2000 http://rcw.nrcs.usda.gov

NRCS, Headquarters
P.O. Box 2890
14th St. & Independence Ave, SW-Washington, DC 20013
(202) 720-1845
http://www.nrcs.usda.gov

Secondary Agencies:

F5. Far	m Servi	ce Agenc	y (FSA)				
Priority problems addressed (✓)*							Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss		(relating to the priority problems)
√		1			1	•	Conservation Reserve Program (RM)
✓					1	•	Emergency Conservation Program (RM)
✓		1			1	•	Environmental Quality Incentives Program (RM)
√		1			1	•	Flood Risk Reduction Program (RM)

(R=REGULATORY, RM=RESOURCE MANAGEMENT, FM=FINANCE MECHANISMS, NR=OTHER NON-REGULATORY)

I. MISSION AND AUTHORITY / II. JURISDICTION

FSA supports American farmers through agricultural, farm loan, conservation, commodity, and other programs. With offices established in almost every county, FSA administers its programs at a local/county/grassroots level. For example, federal farm programs are administered locally as follows: farmers eligible to participate in these programs elect a three- to five-person county committee which reviews county office operations and decides how to apply the programs. In the Morro Bay area, a local FSA office administers conservation cost-share programs for landowners and farmers. Local activities are coordinated with the Morro Bay Watershed Hydrologic Unit Area Project. FSA provides funding for projects through programs such as those listed below.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement regulatory activities or programs.

A. Resource Management Activities/Programs

♦ Conservation Reserve Program (CRP) — The CRP, administered by FSA and the Natural Resources Conservation Service (NRCS), is designed to remove highly erodible croplands from production, reduce sedimentation in streams and lakes, improve water quality, establish wildlife habitat, and enhance forest and wetland resources. CRP encourages farmers to convert highly erodible cropland or other environmentally sensitive acreage to vegetative cover (e.g., tame or native grasses, wildlife plantings, trees, filterstrips, or riparian buffers).

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals = increased heavy metal/toxins concentrations

> Habitat Loss = adverse impacts to wildlife habitat

MB NEP Base Program Analysis, Vol. I

Land owners wishing to enter any of their land in the CRP sign 10-year agreements stating that they will not perform any activities on the land for those 10 years. (See also NRCS)

- Emergency Conservation Program (ECP) The ECP provides cost-share funding for damage occurring from floods and other natural disasters. Funds can be used to restore cropland and replace conservation structures to pre-disaster conditions.
- ♦ Environmental Quality Incentives Program (EQIP) EQIP offers cost-share and incentive payments to agricultural producers who voluntarily enter into 5- to 10-year contracts to implement conservation practices on their land. (See also NRCS)
- ♦ Flood Risk Reduction Program This program allows farmers who voluntarily enter into contracts to receive payments on lands with high flood potential. In return, participants agree to forego certain USDA program benefits. The contract payments provide incentives to move farming operations from frequently flooded land.

A. Finance Mechanisms

This agency does not implement finance mechanism activities or programs.

A. Other Non-Regulatory Programs

This agency does not implement any other non-regulatory activities or programs.

IV. ADMINISTRATION

For further information, contact:

San Luis Obispo FSA Office	California State FSA Office	USDA FSA
65 Main St., Suite 106	1303 J. St., Suite 300	PO Box 2415, STOP 0506
Templeton, CA 93465	Sacramento, CA 95814	Washington, DC 20013
(805) 434-0398	(916) 498-5311	http://www.fsa.usda.gov

F6. Nati	onal Oc	eanic and	l Atmos	oheric A	dminist	tration (NOAA), Dept. of
Com	merce					
	Priority	problems	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
√	√.	1	1	1	1	Coastal Zone Management Program (RM)
1	1	1	1	1	1	Coastal Nonpoint Pollution Control Program (RM)
1	1	1	1	1	1	Status and Trends (RM)
√	√	√	1	1	1	• Strategic Estuarine Assessment (RM)
1	1	1	1	√	1	Sea Grant Program (F)
✓	1	1	1	1	1	National Coastal Guardian Campaign (NR)

I. MISSION AND AUTHORITY

NOAA's mission is to describe and predict changes in the Earth's environment and to conserve and manage wisely the Nation's coastal and marine resources. The agency acts as the federal government's primary source of data and information on problems of the ocean and atmosphere, and directs its scientific and technical expertise towards providing a better understanding and more effective management of the stresses that ever increasing economic and recreational demands are placing on coastal environments. Multiple roles of NOAA include observation, research, development and regulation. Branches of NOAA include the National Marine Fisheries Service (NMFS) which is discussed separately below and the National Ocean Service (NOS) which maintains a variety of estuarine and marine activities (including the management of National Estuarine Research Reserves and National Marine Sanctuaries). NOAA's strategy consists of seven interrelated goals for environmental assessment, prediction, and stewardship: (1) advance short-term warnings and forecast services; (2) implement seasonal to interannual climate forecasts; (3) assess and predict decadal to centennial change; (4) promote safe navigation; (5) build sustainable fisheries; (6) recover protected species; and (7) sustain healthy ecosystems.

II. JURISDICTION

NOAA's jurisdiction includes estuaries and coastal waters throughout the Nation and federal territorial waters within three to 200 nautical miles. This jurisdiction includes marine, estuarine, anadromous fishes as well as commercial fishes (finfish and shellfish), endangered marine species, critical marine habitat and most marine mammals within the territory of the United

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

States. NOAA authority related to estuary protection includes the Coastal Zone Management Act (CZMA) including the Coastal Zone Act Reauthorization Amendments of 1990 (CZARA), the National Ocean Survey Act, and the Marine Protection, Research, and Sanctuaries Act (MPRSA).

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

- ◆ Coastal Zone Management (CZM) Program The National CZM Program is a voluntary partnership between the federal government and coastal states authorized by the CZMA. NOAA efforts include: (1) preserve, protect, develop, and where possible, restore and enhance the resources of the Nation's coastal zone for this and succeeding generations; (2) encourage and assist states to effectively exercise their responsibilities in the coastal zone; and (3) encourage participation, cooperation, and coordination of the public, federal, state, local, interstate and regional agencies, and governments affecting the coastal zone. The California Coastal Management Program (California's CZM program) was approved by NOAA in 1977.
- Coastal Nonpoint Pollution Control Program (CNPCP) A recent, significant legislative development affecting coastal watersheds, CZARA provides a link between California's water quality program under Clean Water Act § 319 [administered by the State Water Resources Control Board (SWRCB) and Regional Water Quality Control Boards] and the State CZM program under CZMA § 306 [administered by the California Coastal Commission (CCC) and San Francisco Bay Conservation and Development Commission]. CZARA § 6217 requires California (1) to prepare a CNPCP, (2) to implement management measures (similar to Best Management Practices) in conformance with EPA guidance, and (3) to implement additional management measures for specified land uses and "Critical Coastal Areas" adjacent to impaired or threatened coastal waters (i.e., watersheds that contain waterbodies identified in the State Water Quality Assessment as not meeting water quality standards). The management measures guidance recognizes six land use types that should be addressed in coastal areas: urban, agriculture, forestry, marinas and recreational boating, hydromodification, and wetlands. The guidance also identifies management practices for each land use type for the purpose of reducing the discharge of pollutants including sediment, nutrients and chemicals from such activities. The purpose of the program is to strengthen State and local efforts to manage land use activities that degrade coastal waters and critical habitats.

In 1998, NOAA and the EPA reviewed and approved with conditions California's CNPCP prepared by the SWRCB and CCC. The CNPCP, which will be implemented Statewide, builds upon the State's *Nonpoint Source Plan*. The State also identifies the Morro Bay watershed as a Critical Coastal Area. In these Critical Coastal Areas, the State proposes to target specific watersheds for focused attention, including funding of pilot watersheds to test new approaches, financial assistance through grants and loans, watershed assessments

MB NEP Base Program Analysis, Vol. I

- conducted by multi-agency assessment teams and training of local groups in technical and planning functions. (See also the SWRCB and CCC institutional inventories.)
- ♦ Status and Trends Under MPRSA, NOAA assesses estuarine and coastal resources. Research topics include monitoring of ambient pollutant levels in sediments, fish and the water column, and pollutant effects on estuarine habitat, estuarine organisms, and human health. Research may be conducted by other agencies. For example USFWS conducts research on marine debris ingestion rates and probable effects on seabirds for NOAA.
- ♦ Strategic Estuarine Assessment (SEA) NOAA assesses resource uses and the scale and scope of existing problems, and provides data to identify future research and monitoring needs. SEA products include a National Estuarine Inventory, Coastal Wetlands Inventory, National Coastal Pollution Discharge Inventory, and an Estuarine Eutrophication Survey (a national survey of the conditions and trends of nutrient enrichment and eutrophication).

C. Finance Mechanisms

Sea Grant Program — The National Sea Grant Program encourages the wise stewardship of marine resources through research, education, outreach, and technical and financial assistance. California Sea Grant, administered by the University of California, selects research projects on the basis of competitive proposals that address a diversity of problems and opportunities.

D. Other Non-Regulatory Programs

 National Coastal Guardian Campaign — This educational campaign brings attention to the needs of the coast, public impacts on coastal areas, and how the public can protect the coast.

IV. ADMINISTRATION

For further information, contact:

National Ocean Service 1305 East-West Highway Silver Spring, MD 20910 (301) 713-3074 http://www.nos.noaa.gov See also http://www.noaa.gov (NOAA) California Sea Grant College System
University of California
9500 Gilman Drive
La Jolla, CA 92093-0232
http://www-csgc.ucsd.edu

							ration (NOAA), National ommerce
	Priority	problems	addressed	I (√) *			Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss		(relating to the priority problems)
✓		1	1	✓	1	•	Endangered Species (R)
√		√	√	√	1	•	Fisheries Stock Assessment (RM)
✓	1	1	√	√	1	•	Habitat Conservation Program (RM)

I. MISSION AND AUTHORITY / II. JURISDICTION

NMFS is the steward of the Nation's living marine resources. Its jurisdiction includes estuaries and coastal waters throughout the Nation, federal territorial waters within three to 200 nautical miles, and waters within three nautical miles for the purpose of protecting endangered or threatened species. This jurisdiction includes marine, estuarine, anadromous and commercial fishes (finfish and shellfish), endangered marine species, critical marine habitat and most marine Program authorities related to estuary protection include the Coastal Zone Management Act, Magnuson Fishery Conservation and Management Act, Endangered Species Act, U.S. Fish and Wildlife Coordination Act, National Environmental Policy Act, Marine Mammal Protection Act, Federal Aid in Wildlife Restoration Act, and Federal Aid in Sport Fish Restoration and Management Projects Act. NMFS programs include those listed below.

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

Endangered Species — Under the Endangered Species Act, NMFS maintains regulatory authority in taking action against those parties who unwittingly or knowingly harm threatened or endangered species, and/or critical habitats. Furthermore, the NMFS maintains authority regarding inspection of U.S. commercial fishery catches. NMFS also generates biological assessments to determine the presence of endangered or threatened species, and develops mitigation plans in the event a project is approved which might affect these species. NMFS coordinates with USFWS and DFG regarding the California Endangered Species Act.

B. Resource Management Activities/Programs

Fisheries Stock Assessment — NMFS is in charge of the routine assessment of stocks and the management of stocks through fisheries regulation. NMFS works with regional Fishery Management Councils (comprised of state governments, commercial/recreational fisheries, and environmental and consumer groups) and regional Fishery Science Center Laboratories.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Heavy Metals + = increased heavy metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

MB NEP Base Program Analysis, Vol. I

♦ Habitat Conservation Program — NMFS compiles data on the ecological importance of marine and estuarine habitats and develops recommendations to reduce coastal and habitat degradation. Aspects to the program include: (1) identify, list, and develop recovery plans for endangered/threatened species through designation of critical habitats, (2) review permits and legislation, and (3) advise on federally funded projects that potentially affect aquatic habitats.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

This agency does not implement any other non-regulatory activities or programs.

IV. ADMINISTRATION

For further information, contact:

National Marine Fisheries Service, SW Region 501 West Ocean Blvd., Suite 4200 Long Beach, CA 90802-4213 (310) 980-4000 http://swr.ucsd.edu/swr.html

National Marine Fisheries Service 1315 East-West Highway Silver Spring, MD 20910 http://kingfish.ssp.nmfs.gov see also http://www.noaa.gov (NOAA)

F8. U.S.	Coast Gi	uard (USC				
	Priority	problems a	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
· · · · · · · · · · · · · · · · · · ·	1		VICIAIS	Tiow	1033	Waste Management (R)
	·		✓ ·			Oil Spill Prevention & Response (RM)
	1		√			Sea Partners Campaign (NR)

I. MISSION AND AUTHORITY / II. JURISDICTION

USCG is the Nation's primary maritime law enforcement and maritime/port safety regulatory agency. Program authorities related to estuary protection include the Oil Pollution Act of 1990, Ports and Waters Safety Act, Clean Water Act, and Marine Protection, Research, and Sanctuaries Act. Funding sources for the USCG include annual congressional appropriations and, for specific pollution incidents, additional funding from the Oil Spill Liability Trust Fund and the Superfund. In Morro Bay, USCG maintains a station, two cutters (the Point Heyer and Point Winslow), and a Marine Environment Response unit for oil spills or hazardous waste conditions in the water. Local responsibilities include search and rescue, recreational boating safety, and maritime law enforcement. Programs related to protection of the Morro Bay estuary include those listed below.

II. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

Waste Management — To protect water quality and combat marine debris, USCG (1) regulates and enforces discharges of sewage and waste from vessels; (2) enforces regulations requiring marine sanitation devices to meet federal performance standards; (3) enforces rules requiring vessels over 40 feet to have a waste management plan, and vessels over 26 feet to display placards outlining plastics/solid waste dumping restrictions; and (4) issues certificates to ports that are equipped with proper facilities to dispose of solid waste from ships.

B. Resource Management Activities/Programs

Oil Spill Prevention & Response — USCG works to prevent and to respond to oil and hazardous material spills on vessels and waterfront facilities. When such spills occur in the coastal zone, the USCG and DFG-OSPR, as the federal and State on-scene coordinators respectively, respond to coordinate cleanup efforts. USCG also reviews spill prevention plans and participates in research efforts aimed at advancing oil-spill-response techniques. USCG also contributes to the Coastal Commissions Area Contingency Planning Process for Oil Spill Response.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Heavy Metals + = increased heavy metal/toxins concentrations

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

> Habitat Loss = adverse impacts to wildlife habitat

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

♦ Sea Partners Campaign — This environmental education and outreach program focuses on communities to develop awareness of maritime pollution issues and to improve compliance with marine environmental protection laws and regulations. Messages include: (1) effects of oil, hazardous chemicals, waste and debris on the marine environment, (2) ways to take action to protect the marine environment, and (3) how marine environmental protection laws and regulations apply to various marine users (see http://www.uscg.mil.hq/g-m/nmc/seapart.htm).

IV. ADMINISTRATION

For further information, contact:

U.S. Coast Guard
1279 Embarcadero St.
Morro Bay, CA 93442-1319
(805) 772-2167
(510) 537-3073, 24-hour phone to report spills

USCG, 11th District Marine Safety Office Coast Guard Island, Bldg. 14 Alameda, CA 94501-5100 (510) 437-3087 http://www.wenet.net/~uscg/index.html

F9. U.S. I	orest Se	rvice (USI	FS), USD	A		
	Priority	problems a	Key programs/activities/etc.			
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
1	1	√	1		1	National Forest System (RM)
1					1	Fire Operations & Fire Management Preparedness (RM)
					1	Forest and Rangeland Research (RM)
1	1	√		1	1	Forest Ecosystem Healty Monitoring (RM)
					1	Forest Ecosystem Restoration and Maintenance (RM)
					1	Land Acquisition (RM)
1				1	1	Reconstruction and Construction (F)
√	√	√		√	1	Stewardship Incentives Program (NR)

I. MISSION AND AUTHORITY / II. JURISDICTION

USFS seeks to help people share and enjoy the forest while conserving the environment for future generations. The federal jurisdiction includes all public lands in national forests and grasslands. Program authorities related to estuary protection include Forest and Rangeland Renewable Resources Planning Act, National Forest Management Act of 1976, and National Environmental Policy Act (NEPA). USFS programs include those listed below.

The Santa Lucia Ranger District manages the Los Padres National Forest, including a small area that extend into the Morro Bay watershed. Its mission includes: (1) provide leadership in forest resource management; (2) manage vegetation for water production, wildlife habitat, and public use and enjoyment; (3) provide an environment that enhances the attraction, training, development, and retention of a cohesive, high performing work force; (4) manage fire as a major element of the ecosystem; (5) protect environmental quality, public health and safety, private property, and users of the Forest; (6) manage and protect surface resources while accommodating mineral extraction and special land uses; and (7) provide recreation opportunities appropriate to Los Padres National Forest which are limited or not available elsewhere.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Heavy Metals + = increased heavy metal/toxins concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

[➤] Habitat Loss = adverse impacts to wildlife habitat

III. FUNCTIONS (regulatory, resource management, finance, and non-regulatory)

A. Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

B. Resource Management Activities/Programs

National Forest System — USFS implements activities for the protection, management and use of the national forests and grasslands in the following areas: recreation use; wildlife and fish habitat protection, restoration and improvement; rangeland management (administering grazing allotments and permits); forestland management (implementation of forest plans which provide for contributions to the nation's demand for timber and maintenance and restoration of healthy ecosystems through reforestation and timber stand improvement); soil, water and air (protection of municipal water supplies, reclamation of abandoned mines).

The Los Padres National Forest Plan provides management guidance for the forest lands in the Morro Bay watershed (Management Area 33). The management emphasis for this area is visual resources: maintaining the rugged natural appearing character of the landscape. The Forest Plan also specifies management guidelines and standards for cultural resources, general forest recreation, fish and wildlife, range resource, watershed, transportation and minerals.

The following programs may be implemented in the small area of forestlands located in the Morro Bay Watershed:

- Fire Operations & Fire Management Preparedness USFS implements numerous activities relating to wildfire prevention (including reduction of hazardous fuels activities), wildfire suppression, and emergency rehabilitation and restoration.
- Forest and Rangeland Research USFS conducts research in four broad areas: vegetation management and protection; wildlife, fish, watershed and atmospheric sciences; resource valuation and use; and forest resources inventory and monitoring.
- Forest Ecosystem Health Monitoring USFS conducts monitoring to build accessible data that allows scientists and managers to detect and respond to early, subtle, yet significant ecosystem change. The program is a partnership with the states to provide monitoring and reporting on state and private lands to complement information on federal lands.
- ♦ Forest Ecosystem Restoration and Maintenance USFS implements activities which meet the objectives of wildlife habitat and watershed improvement, reduction in stand density, and ecosystem restoration. Examples of activities which could meet these objectives include thinning, prescribed burning, road and trail obliteration, and timber sales.
- Land Acquisition USFS activities include acquiring lands, waters and related interests for high-priority recreation and conservation opportunities within the National Forest System.

• Reconstruction and Construction — USFS conducts restoration, construction, and improvement of buildings, utility systems, dams, recreation facilities, roads, bridges, trails, other physical facilities, and acquisition of administrative sites.

C. Finance Mechanisms

♦ Stewardship Incentives Program — USFS provides cost-sharing assistance to help assure sound stewardship and use of the vast state and private forest lands, utilizing non-regulatory approaches. For example, the Stewardship Incentive Program provides financial assistance to encourage non-industrial private forest landowners to keep their lands and natural resources productive and healthy. Qualifying land includes rural lands with existing tree cover or land suitable for growing trees and which is owned by a private individual, group, association, corporation, Indian tribe, or other legal private entity. Eligible landowners must have an approved Forest Stewardship Plan and own 1,000 or fewer acres of qualifying land. Authorizations may be obtained for exceptions of up to 5,000 acres.

D. Other Non-Regulatory Programs

♦ Stewardship Incentives Program — USFS provides technical assistance to help assure sound stewardship and use of the vast state and private forest lands, utilizing non-regulatory approaches. For example, the Stewardship Incentive Program provides technical assistance to encourage non-industrial private forest landowners to keep their lands and natural resources productive and healthy. Qualifying land includes rural lands with existing tree cover or land suitable for growing trees and which is owned by a private individual, group, association, corporation, Indian tribe, or other legal private entity. Eligible landowners must have an approved Forest Stewardship Plan and own 1,000 or fewer acres of qualifying land. Authorizations may be obtained for exceptions of up to 5,000 acres.

IV. ADMINISTRATION

For further information, contact:

Santa Lucia Ranger District
Los Padres National Forest
1616 Carlotti Drive
Santa Maria, CA 93454
(805) 925-9538
http://www.r5.pswfs.gov/lospadres/html/slrd.htm

USFS, Pacific Southwest Region 630 Sansome Street San Francisco, CA 94111 (415) 705-2874 http://www.r5.fs.fed.us http://www.fs.fed.us (National HQ)

	Priorit	y problems	addressed	(√) *		Key programs/activities/etc.
Sediment	Bacteria	Nutrients	Heavy Metals +	Reduced Flow	Habitat Loss	(relating to the priority problems)
√	1	1	1		1	Coastal and Marine Geology Program (RM)
1	1	1	√	1		Water Quality/Quantity (RM)
						Mapping (RM)
		,			1	 National Biological Service (RM0
						VegSpec (RM)

MISSION AND AUTHORITY / II. JURISDICTION T.

USGS provides reliable, impartial information to describe and understand the Earth. information is used to: (1) minimize loss of life and property from natural disasters; (2) manage water, biological, energy and mineral resources; (3) enhance and protect the quality of life; and (4) contribute to wise economic and physical development. USGS's primary program authority is the Water Resources Research Act of 1984.

III. FUNCTIONS (REGULATORY, RESOURCE MANAGEMENT, FINANCE, AND NON-REGULATORY)

Regulatory Activities/Programs

This agency does not implement any regulatory activities or programs.

Resource Management Activities/Programs

Resource management programs related to estuarine protection include:

- Coastal and Marine Geology Program Research and mapping activities of this program are conducted under four themes: (1) environmental quality/preservation (includes research on polluted sediments, waste disposal, and degradation of wetlands/sensitive ecosystems); (2) natural hazards/public safety; (3) natural resources; and (4) information/technology.
- Water Quality/Quantity USGS activities include: (1) provide technical advice regarding water and associated land-use problems, (2) serve as a repository of outreach information on research, planning, and community service, and (3) serve public and private interests in the conservation, development, and use of water resources, including conducting investigations dealing with quantity and quality of ground and surface water.

^{*} Priority problems identified as being present in the Morro Bay watershed include those listed below:

> Sediment = rapid sedimentation

> Bacteria = increased bacterial concentrations

> Nutrients = increased nutrient concentrations > Reduced Flow = freshwater flow reductions

[➤] Heavy Metals + = increased heavy metal/toxins concentrations

[➤] Habitat Loss = adverse impacts to wildlife habitat

In 1987, USGS completed a study of the Los Osos Valley groundwater basin. In cooperation with federal, State and local water agencies, USGS also operates or reviews data for about 1,000 surface-water stations throughout the State. Data collected are used by agencies, among other purposes, to design measurable, effective, and economically sound programs and practices for flood protection. USGS also has programs in California that assess impacts associated with abandoned mines.

- ♦ Mapping USGS's National Mapping Program has focused on mapping areas of California where data are not yet complete. The USGS and USFS are currently working to produce digital orthophotoquads of national forests in California. In 1997, USGS completed a light detection and ranging survey of shoreline and coastal bluff position, and mapped an area from Morro Bay to San Diego using the NASA Airborne Topographic Mapper system.
- ♦ National Biological Service (NBS) In 1996, NBS joined USGS as the Biological Resources Division. USGS gathers information on threatened/endangered species throughout California.
- ♦ VegSpec This is a new web-based program developed cooperatively by USGS, NRCS, and the US Construction/Engineering Research Laboratories. It will help users make sound decisions about land uses and revegetation by presenting information on what plants grow on specific sites.

C. Finance Mechanisms

This agency does not implement any finance mechanism activities or programs.

D. Other Non-Regulatory Programs

This agency does not implement any other non-regulatory activities or programs.

V. ADMINISTRATION

For further information, contact:

USGS, Western Region 345 Middlefield Rd. Menlo Park, CA 94025 (650) 853-8300 http://www.wr.usgs.gov USGS, Water Resources Division CA District Office Placer Hall, Suite 2012 6000 J Street Sacramento, CA 95819-6129 (530) 278-3000 USGS, National Center 12201 Sunrise Valley Drive Reston, VA 20192 (703) 648-4000 http://www.usgs.gov

3.0 REFERENCES AND PERSONS CONSULTED

3.1 REFERENCES

Management Measure Review Document, California Coastal Commission and State Water Resources Control Board, 1998

National Estuary Program Guidance, Base Programs Analysis, US EPA, 1993

National Estuary Program, The Nomination of Morro Bay, California Environmental Protection Agency, State Water Resources Control Board

3.2 PERSONS CONSULTED

Morro Bay National Estuary Program Staff

- 1. Melissa Mooney, Director
- 2. Katie Kropp, Technical Director

Local Agencies

- L1. City of Morro Bay Planning and Building Department Shauna Naumann: (805) 772-6200
- L2. City of Morro Bay Public Works Department Bill Boucher: (805) 772-6261
- L3. City of Morro Bay Harbor Department Rick Algert: (805) 772-6254
- L4. San Luis Obispo County Planning and Building Department Mike Wulkan: (805) 781-5603
- L5. San Luis Obispo County Public Health Department, Environmental Health Division Susan Ayers: (805) 781-5544
- L6. San Luis Obispo County Engineering Department Greg Martin: (805) 781-5252
- L7. San Luis Obispo County Agriculture Department John Warrick: (805) 781-5910
- L8. San Luis Obispo County General Services, Parks Sandra Zaida: (805) 781-5200
- L9. Coastal San Luis Resource Conservation District (RCD)
 Scott Robins: (805) 772-4391
- L10. City of Morro Bay Recreation and Parks Department Andrea Lueker: (805) 772-6282
- L11. San Luis Obispo County -- Council of Governments (SLOCOG)
 Richard Murphy: (805) 781-5714

MB NEP Base Program Analysis, Vol. I

State Agencies

- S1. California Coastal Commission (CCC), Resources Agency Cy Oggins: (415) 904-5200
- S3. Department of Fish and Game, Office of Oil Spill Prevention and Response (OSPR), Resources Agency Melissa Boggs: (805) 772-1756
- S5. Department of Pesticide Regulation (DPR), Cal/EPA Madeline Brattesani: (916) 324-4100
- S6. Regional Water Quality Control Board (RWQCB), Cal/EPA Lisa Horowitz-McCann: (805) 549-3132
- S7. State Coastal Conservancy (SCC), Resources Agency Carol Arnold: (510) 286-1015
- S8. State Lands Commission (SLC)
 John Lien: (916) 574-1900
- S9. State Water Resources Control Board (SWRCB), Cal/EPA Ken Coulter: (916) 657-2390
- S10. California Conservation Corps, Resources Agency Bruce Bonifas: (805) 549-3561
- S11. California Integrated Waste Management Board (CIWMB), Cal/EPA John Frith: (916) 255-2200
- S12. California National Guard—Camp San Luis Obispo, Military Department Brian Duke: (805) 238-8418
- S13. Department of Boating and Waterways (DBW), Resources Agency John Middleton: (916) 415-2616
- S14. Department of Conservation (DOC), Resources Agency Mike Stetner: (916) 324-0850
- S19. Department of Water Resources (DWR), Resources Agency Charles White: (916) 653-5791
- S20. Office of Environmental Health Hazard Assessment (OEHHA), Cal/EPA William F. Soo Hoo: (916) 324-7572
- S21. University of California, Cooperative Extension Service (U.C. Extension) Bill Weitkamp: (805) 781-5940

MB NEP Base Program Analysis, Vol. I

Federal Agencies

F1. U.S. Environmental Protection Agency (EPA) Cheryl McGovern: (415) 744-2013

F2. U.S. Army Corps of Engineers (ACOE) —
Planning Division, Coastal Resources Branch:
Stephen Fine: (213) 452-3821
Hoa Ly: (213) 452-3824
Regulatory Division, Ventura Field Office:
Tiffany Welch: (805) 641-2935

F3. U.S. Fish and Wildlife Service (USFWS), U.S. Dept. of the Interior Kate Symonds: (805) 644-1766

F4. Natural Resources Conservation Service (NRCS), U.S. Dept. of Agriculture (USDA) Scott Robins: (805) 772-4391

F5. Farm Service Agency (FSA), USDA Cathy Borg: (805) 434-0398

F6. National Oceanic and Atmospheric Administration (NOAA), U.S. Dept. of Commerce Deborah McCardle: (805) 882-1889

F7. NOAA, National Marine Fisheries Service (NMFS), U.S. Dept. of Commerce Bob Hoffman: (310) 980-4000

F8. U.S. Coast Guard (USCG)
Lt. Dan Bennet: (805)772-2167

F9. U.S. Forest Service (USFS), USDA Melody Fountain: (805) 925-9538

3.3 SPECIAL PRIVATE PARTNERS

The Morro Bay NEP plan development and implementation cannot succeed without the participation of "special partners," or those private stakeholders who individually manage lands, facilities or other resources that influence the quality of the watershed habitats and environments. Many of these partners are represented on the Morro Bay committees. They are listed below, along with their primary mission.

Audubon Society (Non-profit: Education; land acquisition)

Bay Foundation of Morro Bay (Non-profit: Education and Research)

California Native Plant Society (Non-profit: Education)

California Polytechnic State University, San Luis Obispo (Education)

Central Coast Natural History Association (Non-profit: Education and Research)

Duke Energy (Private for profit: formerly PG&E)

Environmental Center of San Luis Obispo (ECOSLO) (Non-profit: Education)

Friends of the Estuary (Non-profit: Education)

Land Conservancy of SLO (Non-profit: Land trust)

Morro Estuary Greenbelt Alliance (MEGA) (Non-profit: Land acquisition)

Small Wilderness Area Preservation (SWAP) (Non-profit: Land management and protection)

Trust for Public Land (Non-profit: Land acquisition)

BASE PROGRAMS ANALYSIS FOR THE MORRO BAY NATIONAL ESTUARY PROGRAM COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN

VOLUME II: EFFECTIVENESS ANALYSIS

Prepared by

Lisa Horowitz McCann Central Coast Regional Water Quality Control Board

Cy R. Oggins
California Coastal Commission

and

Audrey Blumeneau California Coastal Commission

for the

Morro Bay National Estuary Program

Melissa Mooney
Program Director

Final Draft
January 1999

BASE PROGRAMS ANALYSIS FOR THE MORRO BAY NATIONAL ESTUARY PROGRAM COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN

VOLUME II: EFFECTIVENESS ANALYSIS

Prepared by

Lisa Horowitz McCann Central Coast Regional Water Quality Control Board

> Cy R. Oggins California Coastal Commission

> > and

Audrey Blumeneau California Coastal Commission

for the

Morro Bay National Estuary Program

Melissa Mooney
Program Director

Final Draft January 1999

Acknowledgments

Preparation of this document originated soon after the Morro Bay Estuary was accepted into the US Environmental Protection Agency's National Estuary Program (NEP). Staff of the Central Coast Regional Water Quality Control Board (Regional Board) was assigned to prepare the Base Programs Analysis for the Morro Bay NEP. At that time, the former Program Director, Dave Paradies, and the former Scientific Director, Karen Worcester (an Environmental Specialist with the Regional Board), provided direction and support. As the NEP developed, these two directors saw an opportunity to partner with the California Coastal Commission, as that agency's staff was actively involved with encouraging implementation of nonpoint source pollution management measures in coastal areas (through their participation in the State's process of upgrading the California Nonpoint Source Management Program). Tami Grove, a Deputy Director of the California Coastal Commission, shared this view. She and Vern Jones, Supervising Environmental Specialist with the Regional Board, approved an interagency agreement between the State Water Resources Control Board and the California Coastal Commission that brought the coauthors of the report together. Along the way, Katie Kropp, Environmental Specialist with the Regional Board and Technical Director for the National Estuary Program, provided information about the roles and interests of the various agencies and represented the views of the members of the general public participating in the Program. We also acknowledge the hard work and flexibility of the student assistants/interns and administrative staff who assisted us--Jonathan Civita, Jon Boland, and Katy Hanson working for the Regional Board, and Michael Rasnick, working for the California Coastal Commission. Finally, this project could not have been completed without the input and feedback we received from representatives of the local, state and federal agencies included in the Institutional Inventory.

MB NEP Base Programs Analysis, Vol. II

TABLE OF CONTENTS

			Page (s)
1.0	EXE	CUTIVE SUMMARY	1
2.0	INT	RODUCTION	2
	2.1	VOLUME II: EFFECTIVNESS ANALYSIS	2
	2.2	THE PURPOSE OF THE BASE PROGRAMS ANALYSIS	2
	2.3	THE PURPOSES AND GOALS OF THE MORRO BAY NEP	. 3
	2.4	PRIORITY PROBLEMS	5
	2.5	SETTING	7
3.0	MET	HODS OF ANALYSIS	8
4.0	ANA	LYSIS OF THE INSTITUTIONAL FRAMEWORK	10
	4.1	EFFECTIVNESS ANALYSIS: PROGRAMS ADDRESSING	
		SEDIMENTATION	15
	4.2	EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING	
		INCREASED BACTERIAL CONCENTRATIONS	25
	4.3	EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING	
		INCREASED NUTRIENTS	34
	4.4	EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING	
		HEAVY METALS AND OTHER TOXINS	43
	4.5	EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING	
		REDUCED FRESHWATER FLOWS	53
	4.6	EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING	
		HABITAT LOSS	59
5.0	REC	COMMENDED ACTIONS	68
6.0	REF	ERENCES AND PERSONS CONSULTED	88
7.0	APP	ENDICES	92
	7.1	MATRIX OF INSTITUIONAL FRAMEWORK	
	7.2	QUESTIONNAIRE ON PROGRAM EFFECTIVENESS	
	7.3	RESPONSES TO QUESTIONNAIRE	

1.0 EXECUTIVE SUMMARY

This document contains Volume II: Effectiveness Analysis of the Base Programs Analysis for the Morro Bay National Estuary Program's Comprehensive Conservation and Management Plan (CCMP). This analysis was conducted pursuant to Section 320 of the Clean Water Act which established the National Estuary Program and authorizes development of the CCMP. Volume II includes an assessment of the effectiveness of the programs that make up the framework available for managing and protecting the estuary's resources. Additionally, the analysis includes recommendations for improving the mechanisms for addressing priority problems and their causes.

SECTION 2.0 of this document describes the purpose of the Base Programs Analysis, the purposes and goals of the Morro Bay NEP, priority problems and the setting.

SECTION 3.0 describes the methods of analysis of the institutional framework. This was accomplished in three steps. The first step was an evaluation of the gamut of programs and categories of programs available to address each priority problem. The second step was to consider direct information about the specific programs of the primary agencies in the existing institutional framework. The third step was to characterize the effectiveness of the specific programs of the agencies in the existing institutional framework by requesting input from the agencies on the effectiveness of their programs.

The results of the analysis are described in SECTION 4.0 of this document. Tables 4.1B through 4.6E contain detailed information on the effectiveness of each program or group of programs analyzed. The results of the analysis indicate the following:

- significantly more regulatory and resource management programs are being implemented in the existing institutional framework than finance mechanisms or other non-regulatory programs;
- similar successful aspects and problems occur regardless of the type of program or the priority problem addressed by a program;
- the most common problem indicated for all types of programs was insufficient resources; and
- the most common successful aspects of programs reported include complementary programs and statutory authority.

The final section of this document (SECTION 5.0) presents specific actions to improve effectiveness of the institutional framework based on the results of the effectiveness analysis. A total of 49 actions are recommended and described in Table 5.1. In order to improve the institutional framework, the recommended actions focus on:

- capitalizing on existing state and federal finance mechanisms to provide more financial resources to local agencies and landowners;
- improving interagency coordination;
- increasing public education and outreach;
- implementing more comprehensive approaches for developing strategies to address priority problems;
- providing incentives for implementation of nonpoint source pollution control; and
- expanding existing monitoring activities.

A complete list and descriptions of the recommended actions are contained in Table 5.1.

.

2.0 INTRODUCTION

2.1 VOLUME II: EFFECTIVENESS ANALYSIS

This document contains Volume II of the Base Programs Analysis for the Morro Bay National Estuary Program's Comprehensive Conservation and Management Plan. Volume II of the Base Programs Analysis includes the Effectiveness Analysis for the institutional framework. The Effectiveness Analysis is the heart of the Base Programs Analysis. It includes an assessment of the effectiveness of the programs that make up the framework available for managing and protecting the estuary's resources. Additionally, the analysis includes recommendations for improving the mechanisms for addressing priority problems and their causes.

Volume I of the Base Programs Analysis includes the Institutional Inventory of Programs analyzed in Volume II.

2.2 THE PURPOSE OF THE BASE PROGRAMS ANALYSIS

The purpose of the Base Programs Analysis is to assist the Morro Bay National Estuary Program (NEP) in developing effective mechanisms for addressing priority problems and their causes.

Section 320 of the Clean Water Act established the National Estuary Program to identify nationally significant estuaries threatened by pollution, development, or overuse and to promote the preparation of comprehensive management plans to ensure their ecological integrity. Section 320 states that one purpose of National Estuary Programs is development of plans to coordinate implementation of the CCMP by local, state and federal agencies. The Base Programs Analysis is a process to facilitate this purpose.

The Base Programs Analysis offers decision makers a clearer picture of the existing institutional "infrastructure" or framework of the estuary and watershed. It serves as a management characterization of the estuary and watershed through a process of:

- describing the framework of institutions and programs within which a CCMP will be implemented;
- assessing the effectiveness of that framework in managing and protecting the estuary's resources; and
- recommending, in conjunction with the technical characterization, issues to be addressed in the CCMP based on potential management enhancements or alternatives.

This Base Programs Analysis was developed by following the guidance in the document National Estuary Program Guidance, Base Programs Analysis (US EPA, 1993). Additionally, it was developed by considering the approach currently underway by State agencies to identify actions consistent with the Coastal Zone Act Reauthorization Amendments. Integration and coordination of local needs with this state process should result in more technical and financial support to implement the actions developed for the CCMP. The approach included the following:

- identification of issues and actions to be addressed in the CCMP based on the results of the effectiveness analysis;
- evaluation of applicable management measures from those included in the Management Measure Review Document (California Coastal Commission and State Water Resources Control Board, 1998) developed under authority of CZARA; and
- description of how recommended actions for the CCMP implement the applicable management measures.

2.3 THE PURPOSES AND GOALS OF THE MORRO BAY NEP

2.3.1 The Purposes of The Morro Bay NEP

- 1) The Morro Bay NEP includes an emphasis on characterization and trend detection as set forth in several of its seven purposes and objectives:
- 2) Assess trends in the estuary's water quality, natural resources, and uses of the estuary;
- 3) Collect, characterize and assess data on toxics, nutrients, and natural resources within the estuarine zone to identify the causes of environmental problems;
- 4) Assess pollutant loadings in the Estuary and relate them to observed and potential changes in uses of the estuarine zone, water quality and natural resources;
- 5) Develop a comprehensive conservation and management plan that recommends priority corrective actions and implementation schedule addressing point and nonpoint sources of pollution to restore and maintain the chemical, physical, and biological integrity of the estuary, including restoration and maintenance of water quality, a balanced indigenous population of shellfish, fish, and wildlife, and recreational activities in the estuary, and assure that the designated uses of the estuary are protected.
- 6) Develop plans for the coordinated implementation of the plan by the states as well as federal and local agencies participating in the conference;
- 7) Monitor the effectiveness of actions taken pursuant to the Plan;
- 8) Ensure that federal assistance and development projects (per Executive Order 12372, September 17, 1983) are consistent with the Management Plan, meet the requirements of CWA Section 320(b)(7), and further the goals of the Plan.

2.3.2 The Goals of The Morro Bay NEP

In addition, the Morro Bay NEP has adopted its own goals. The goals outline the resources of the bay and watershed that the program strives to protect and enhance. In order to measure progress towards meeting these goals, appropriate monitoring programs must be developed and implemented.

- 1) Slow the process of bay sedimentation through implementation of management measures which address erosion and sediment transport.
- 2) Reestablish healthy steelhead trout habitat in Chorro and Los Osos creeks through measures including reduction of sediment loading in gravels, stabilization of riparian corridors, removal or mitigation of migration barriers, improvement of water quality, and restoration and maintenance of adequate fresh water flow.
- 3) Ensure that bay water remains of sufficient quality to support a viable commercial shellfish mariculture industry, safe recreational uses, healthy eelgrass beds, and thriving fish and shellfish populations.
- 4) Ensure the integrity of the broad diversity of natural habitats and associated native wildlife species in the bay and watershed.

MB NEP Base Programs Analysis, Vol. II

- 5) Maintain watershed functional integrity through appropriate riparian corridor management, impervious surface management, fire management, and grazing management.
- 6) Protect social, economic, and environmental benefits provided by the bay and watershed through comprehensive resource management planning.
- 7) Promote public awareness and involvement in estuarine management issues through outreach, educational programs, and the use of volunteers in ongoing bay monitoring and other programs.

2.4 PRIORITY PROBLEMS

The following issues have been identified as priority problems in the bay and watershed:

- Sedimentation
- Increased Bacterial Concentrations
- Increased Nutrients
- Heavy Metals and Other Toxins
- Reduced Fresh Water flows
- Habitat Loss

Sedimentation - Erosion in the watershed and sedimentation in the estuary are the greatest threats to Morro Bay. If sediment deposition in the estuary continues at the present rate, the health of the estuary is in severe jeopardy. Under normal conditions, an estuary and lagoon such as Morro Bay, could have a life measured in thousands of years (USDA/SCS, 1989a). However, if there is no abatement of sediment deliveries to the estuary, its life expectancy is likely limited to approximately 300 years (Haltiner, 1988), with parts of the southern section of the bay disappearing much sooner. The economic and environmental impact of this loss would be severe.

<u>Increased Bacterial Concentrations</u> - Elevated levels of bacteria present a potential health threat to those who utilize the bay for recreational purposes and economic threats to those who depend upon the resources of the bay for their livelihood. Elevated levels of bacteria are an indication that other pollutants, such as pathogens and viruses, may be present.

Bacteria levels in Morro Bay have increased noticeably since 1993. The increased levels have already impacted local shellfish growing operations. Rising levels of bacteria could adversely impact recreational uses of the bay. These pollutants can have adverse effects on humans and many marine species who utilize the bay.

Increased Nutrients - Sediment and fertilizer runoff from agricultural land contains significant amounts of nitrogen and phosphorus as well as organic matter. Nutrients are also added by animal waste runoff into waterways. Other nutrient sources include the wastewater discharge at the California Men's Colony treatment plant and septic systems in Los Osos and Baywood Park. These increased nutrient additions to the creeks and estuary can result in increased algal growth and reduced levels of dissolved oxygen in the water. The reduced oxygen contents can adversely affect aquatic organisms, particularly fish. This problem may increase as grazing lands are converted to higher intensity agriculture and in sections of the watershed, to horse operations and residential parcels.

Heavy Metals and Other Toxins - Inactive mines in the upper watershed have resulted in high levels of heavy metals, particularly nickel and chromium, being found associated with sediments eroding from these areas. Mine tailings and dredging spoils have been used for years in the upper watershed as fill and as road surface material. Dust from this soil may present a risk for those frequently exposed to it, as nickel is a lung carcinogen. Neither nickel nor chromium have been detected in significant quantities in surface waters; they are found primarily in association with soil particles. Their presence in sediment could impact the health of benthic fauna.

The Los Osos Landfill in the Los Osos Creek watershed may be another source of pollutants. Until early 1988, the landfill was the waste dump for residential wastes, toxic materials including motor oil, pesticide containers, lubricants, and other domestic pollutants. Pollutant discharges from the landfill have not been found in surface water. However, recent studies (Engineering Science, 1987) show low level hydrocarbon contamination in two wells adjacent to the landfill. Erosion of contaminated sediment from the landfill could be a concern. For example, during major storms in 1983, portions of the buried trash were exposed and eroded by

a tributary of Los Osos Creek. Monitoring of water continues in the estuary through the Bay Protection and Toxic Cleanup Program (State Water Resources Control Board, 1988).

Other potential sources of heavy metals and other toxic pollutants include urban runoff discharges from the streets of the city of Morro Bay and the community of Los Osos, live-aboard boaters, boat painting and cleaning, and fuel docks.

Limited mussel data is available as an indicator of the bay's quality with respect to metals and organics. These data do, however, indicate that a potential for problems exists in Morro Bay. Efforts are needed to prevent one-time occurrences of toxic concentrations from becoming chronic problems.

Reduced Fresh Water Flows - The Morro Bay watershed is the source of drinking water for the communities of Los Osos (population about 16,000), the California Men's Colony (population about 6-8,000), and the city of Morro Bay (population about 10,000). At present, groundwater recharge of aquifers comes from the same sources that bring fresh water to the estuary, and increases in ground and surface water diversion directly affect the flow of creeks, the number of flow days, and wildlife and botanic values associated with a fresh water supply. Fresh water flows from the two main creeks (a third was diverted from the bay in the 1940's) entering the bay have been reduced, and at times completely interrupted, through a combination of agricultural and urban uses.

Habitat Loss - Impacts to wetlands around the bay are closely linked to sedimentation. Seasonal runoff of fresh water produces measurable turbidity in mid-estuary zones (eelgrass), the duration of which is significantly longer in a simple flow system like a mature river (Phillips, 1984). Increased turbidity leads to decreased eelgrass growth, and reduces the depth range at which it will occur in the estuary. Desiccation through increased sediment accumulation is a major factor limiting the upper intertidal distribution of eelgrass. There appears to be no species succession in the eelgrass stage of the ecosystem. Eelgrass is the initial colonizer as well as the climax stage of development (Phillips, 1984).

The salt marsh and mudflats, while increasing in area at the estuary edge, does so at the expense of the eelgrass beds and deep water zones. With increased sedimentation, salt marsh habitat is being replaced in the upper delta by lower-salinity tolerant species. These include the introduced and extremely invasive Hoary Cress (<u>Cardaria draba</u>). Habitat quality at this expanding interface has been severely degraded (Cicero, 1991). Also invasive in riparian woodlands adjacent to the delta is German Ivy, again probably exacerbated by disturbed soils resulting from sedimentation.

2.5 SETTING

The Morro Bay estuary encompasses about 2,300 acres of mudflats, eelgrass beds, tidal wetlands, and open water. The project area encompasses the entire 48,000-acre Morro Bay watershed and estuary. The watershed is comprised of the Chorro Creek drainage (27,000 acres) and the Los Osos Creek drainage (17,000 acres).

Morro Bay supports the most significant wetland system on California's south-central coast. It also supports large tourism and commercial fishing industries, oyster farming and other business and recreational interests. The estuary is an essential link in the Pacific Flyway, providing one of the state's largest waterfowl habitats south of San Francisco. It supports a rich eelgrass resource and provides habitat for a number of endangered and/or threatened species, including, but not limited to: steelhead trout, California red-legged frog, tidewater goby, Morro Bay kangaroo rat, southern sea otter, and western snowy plover.

Major land uses in the watershed include rangeland (grassland), cropland, state and city parks and beaches, and urban development.

3.0 METHODS OF ANALYSIS

The analysis of the institutional framework characterized by the Institutional Inventory was accomplished in three steps.

The first step (Step 1) was an evaluation of the gamut of programs and categories of programs available to address each priority problem. This was accomplished by creating and reviewing a matrix of programs. This matrix is contained in Appendix 7.1, Institutional Framework Addressing Priority Problems. Then, BPA staff generally assessed which types of programs are lacking in the institutional framework and which are most likely to improve the institutional framework.

The second step (Step 2) was to consider direct information about the specific programs of the primary agencies in the existing institutional framework. Direct information was considered by reviewing the activities, plans, policies and regulations of specific programs to verify ability to address a priority problem and to identify weaknesses or gaps in ability to address a priority problem. Based on this review, BPA staff evaluated what aspects of existing programs are lacking and what aspects are working.

The third step (Step 3) was to characterize the effectiveness of the specific programs of the agencies in the existing institutional framework. This was accomplished by requesting input from the agencies on the effectiveness of their programs. BPA staff developed a questionnaire and distributed it to all 43 of the agencies (22 primary agencies and 21 secondary agencies). The questionnaire and responses are contained in Appendix 7.2 to this report. The questionnaire included several criteria to indicate effectiveness of programs as shown in Table 1. The questionnaire also included places to indicate other comments and suggest ways to improve the institutional framework.

TABLE 1. CRITERIA TO INDICATE EFFECTIVENESS OF PROGRAMS

Successful Aspects	Problems
Clear goals, responsibilities or procedures	Unclear goals, responsibilities, or procedures
Complementary programs	Completing or conflicting programs
Good coordination/cooperation with other organizations	Difficulties in coordinating/cooperating with other organizations
Uniqueness of the program	Duplication of effort
Sufficient Resources	Insufficient resources
Support through statutory authority	Lack of statutory authority
Support of the public	Lack of public support

BPA staff received responses from 20 of these agencies as requested. Only ten of these responses were from primary agencies. BPA staff then contacted the representatives of the other 12 primary agencies by phone to solicit responses to the questions or general characterizations of effectiveness. BPA staff was also able to ascertain information on effectiveness of programs through attendance at NEP workgroup meetings and the Watershed Committee meetings.

The effectiveness analysis focused predominantly on the primary agencies. In some cases, a notable program being implemented by a secondary agency was analyzed. SECTION 4.0 contains six subsections that correspond to the six priority problems. Each subsection includes five tables. Each table identifies the implementing agency, the "successful aspects" and "problems" associate with each program (or group of programs), and other comments and suggestions. Lists and descriptions of programs implemented by each agency are contained in Volume I – Institutional Inventory of Programs. The first table in each subsection presents effectiveness information for the local agency programs. The second table presents effectiveness

MB NEP Base Programs Analysis, Vol. II

information for state and federal regulatory programs. The third table presents effectiveness information for state and federal resource management programs. The fourth table presents effectiveness information for state and federal finance mechanisms. The fifth table presents effectiveness information for other state and federal non-regulatory programs.

The local agency programs were not grouped by institutional framework category because local agency functions overlapped these categories much more than state and federal agency functions. The successful aspects and problems reported for the variety of functions implemented by the local agency departments were similar. Consequently, local agency functions were analyzed as a group, rather than separated into institutional framework categories, to avoid repetition of the effectiveness analysis criteria.

The results of the analysis are presented in **SECTION 4.0**.

4.0 ANALYSIS OF THE INSTITUTIONAL FRAMEWORK

In general, there are several regulatory programs, resource management programs, finance mechanisms, and other non-regulatory programs currently being implemented. These institutional framework categories were defined in Volume I: Institutional Inventory as follows:

Regulatory Programs

This includes activities that are required by statutes and codes and those that are legally authorized. Typical activities are development and review for consistency with legal standards and requirements, issuance of orders or permits, ordinances, and enforcement. Activities implemented through regulatory mechanisms are often similar to activities implemented in other categories (e.g. erosion control structures). The distinction is that these activities are required by and enforceable with a legal authority. Examples that were considered include:

- development and enforcement of ordinances
- water quality permitting, discharge prohibition and enforcement
- standard setting/criteria development
- wetlands protection/dredging/dumping restrictions
- coastal zone management plans

Resource Management Programs

This includes activities that are implemented for consistency with goals, policies and guidance. Typical activities are monitoring and assessment of resources, and development and implementation of resource enhancement and protection plans. Activities implemented through resource management programs may be similar to activities implemented in other categories (e.g. land acquisition). Examples that were considered include:

- agricultural area preservation
- fisheries habitat and wildlife protection
- nonpoint source pollution control

Finance Mechanisms

These include tools available to agencies to provide funding or financial resources to other agencies and/or landowners to pay for actions to manage and protect the estuary and watershed. Typical activities are those related to grants, low interest loans, cost-share programs, taxincentives and land acquisition. Activities implemented through finance mechanisms may be similar to activities implemented in other categories (e.g. a grant to pay for erosion control).

Other Non-Regulatory Programs

Voluntary Initiatives/Incentive Programs

These include efforts to gain voluntary involvement by agencies and/or landowners. Typical activities are encouragement of interagency cooperation, raising public awareness, efforts to change individual behavior, and establishing partnerships and commitments to implement actions. Activities implemented through voluntary initiatives/incentive programs may be similar to activities implemented in other categories (e.g., volunteer monitoring).

Public Education and Technical Assistance

These include outreach and education efforts both to provide public awareness and specific assistance on technical issues (such as implementation of particular pollution control techniques). Typical activities are public presentations by agency BPA staff at workshops and meetings, training courses for agency BPA staff and landowners, creation and distribution of written materials, one-on-one site visits and interactions with landowners to resolve a specific problem. Activities implemented through public education and technical assistance programs may be similar to activities implemented in other categories (e.g., training on installation of erosion control structures).

Planning Efforts

These include planning activities related to growth management and land use. Typical activities are General Plan and other plan updates and adoption, and project review and approval. Activities implemented through planning efforts may be similar to activities implemented in other categories (e.g. require open space as a condition for approval of a project).

The first step in the analysis (described in SECTION 3.0) indicated that significantly more regulatory and resource management programs are being implemented in the existing institutional framework than finance mechanisms or other non-regulatory programs. The following are general observations about each of the institutional framework categories and how they relate to priority problems.

- Regulatory Programs: Most of the regulatory authorities/programs that address all six priority problems in some capacity are implemented by State agencies. This is supplemented by the regulatory authorities/programs of local agencies for some, but not all, the priority problems. Regulatory activities of federal agencies mostly provide authority, technical assistance, and program management to the state agencies. Some of the federal regulatory programs that address some, but not all, of the priority problems include permitting and enforcement activities.
- Resource Management Programs: Resource management programs are implemented by all levels of government for all the priority problems. Local agencies have fewer resource management programs than the state or federal agencies.
- Finance Mechanisms: Finance mechanisms are available almost exclusively from state and federal agencies. Most of the financing available is for implementation of activities by state and local agencies. A few finance mechanisms are available that provide funding directly to landowners (through cost-share and loan programs). For the most part, local agencies do not implement finance mechanisms.
- Other Non-Regulatory Programs: Voluntary initiatives/incentives and public education and technical assistance programs are implemented by all levels of government for all the priority problems. Most of the public education and technical assistance programs are being implemented by State and federal agencies. Planning efforts (defined in the Institutional Inventory as those related to land use and growth management) are implemented almost exclusively by local agencies. Other planning efforts by state and federal agencies (such as watershed planning, fire management planning, and hazardous materials management planning) are considered resource management activities in this institutional framework analysis.

The second and third steps in the analysis (as described in SECTION 3.0) provided the information on effectiveness of local programs contained in Tables 4.1A, 4.2A, 4.3A, 4.4A, 4.5A and 4.6A.

For state and federal programs, the second and third steps in the analysis indicate that similar successful aspects and problems occur regardless of the type of program or the priority problem addressed by a program. This may be due to the fact that state and federal agency programs of all types address sedimentation, bacteria, nutrients, and heavy metals and other toxins simultaneously. For the most part, these programs do not apply uniquely to any one of these potential pollutants or priority problems. A more unique set of state and federal agency programs exists that address reduction in fresh water flow and habitat loss. However, these programs exhibit similar successful aspects and problems with effectiveness as those that address the other priority problems.

The most common problem indicated for all types of programs was insufficient resources. Following insufficient resources, difficulties coordinating and cooperating with other agencies was cited most frequently as limiting program effectiveness. Several agencies also indicated unclear goals, responsibilities and procedures limited effectiveness of some programs. The most common successful aspects of programs reported include complementary programs and statutory authority. Several agencies also indicated that programs they implement have support of the public.

The following paragraphs provide a summary of problems with effectiveness of programs by institutional framework category.

State and federal regulatory programs seem to be more limited by difficulties coordinating and cooperating with other agencies than by insufficient resources. The following suggestions were repeatedly made to improve effectiveness of state and federal regulatory programs: streamline permit processes, improve public outreach, improve interagency coordination, and implement comprehensive approaches (watershed management, habitat conservation planning, TMDL).

State and federal resource management programs are limited by difficulties coordinating and cooperating with other agencies, and by unclear goals, procedures and responsibilities, in addition to insufficient resources. Suggestions to improve effectiveness of resource management programs include: streamline permit processes, improve public outreach, offer incentives for implementation of nonpoint source pollution controls, coordinate monitoring efforts, evaluate urban runoff as a source of metals and develop appropriate control measures, improve interagency coordination.

State and federal finance mechanisms are limited by insufficient resources and difficulties coordinating and cooperating with other agencies. Suggestions to improve effectiveness of finance mechanisms include: improve public outreach, and improve interagency coordination to avoid duplication of spending.

Other state and federal non-regulatory programs seem to be more limited by difficulties coordinating and cooperating with other agencies than by insufficient resources. The following suggestions were repeatedly made to improve effectiveness of other state and federal non-regulatory programs: expand existing education and monitoring activities, improve public outreach, and improve interagency coordination.

Tables 4.1B through 4.6E in the remainder of this section show information on effectiveness of each program or group of programs analyzed. In the tables and throughout the remainder of this document, agencies and programs are referred to by acronyms to save space. Table 2 explains acronyms for agencies and Table 3 explains acronyms for programs.

TABLE 2
Agency Acronyms

ACRONYM CMB CMB P & B Dept. SLO Co.
CMB P & B Dept.
SLOCo
SLOCO
SLOCo
SLO Co
, 515 55.
SLO Co. P & B Dept
SLO Co. EHD
1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SLO Co. Ag. Dept.
RDC
SLO Co. APCD
SLO Co. COG
1020 00.000
CCC
DFG
OSPR
OSFR
DHS
DPR
RWQCB
SCC
SLC SWRCB
CA Cons. Corps
CIWMB
CA Nat'l Guard/Cam SLO
DBW
DOC
CDF
DP&R
DTSC
Cal Trans
DWR
ОЕННА
U.C. Coop. Extension
U.S.
EPA
USOE
USFWS
NRCS, USDA
FSA, USDA
NOAA
NOAA, NMFS
1102111, 111111110
USCG
USFS
· · · · · · · · · · · · · · · · · · ·

MB NEP Base Programs Analysis, Vol. Π

TABLE 3
Program Acronyms

PROGRAM	PROGRAM ACRONYM
Total Maximum Daily Load	TMDL
National Estuary Project	NEP
Nonpoint Source Pollution Control/Coastal Zone Act Reauthorization Amendments	NPSPC/CZARA
Water Quality Assessment	
State Revolving Fund	
Monitoring Effects/Volunteer Monitoring	
Inactive Mine Study	
Nonpoint Source/Coastal Zone Act Reauthorization Amendments	NPS/CZARA ;
Clean Water Act, Section 401	CWA 401

4.1 EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING SEDIMENTATION

TABLE 4.1A Local Program Effectiveness Addressing Sedimentation In Morro Bay Watershed

Agency		Effectiveness Analysis
City of Morro Bay	•	The City's General Plan/LCP policies, programs, and ordinances appear to effectively address the control of erosion and sedimentation from construction sites and other development projects. In general, regulatory goals, procedures, and responsibilities are clearly stated, and the General Plan/LCP policies and ordinances are strong and fairly complete. Identification of related policies and ordinances that address sedimentation, however, can be time-consuming, as these policies and ordinances are located in different land use and water quality sections of the General Plan/LCP. In recent years, the City Planning and Building Department staff has consisted of only one full-time staff person. Additional planning staff would help to
	•	ensure that sedimentation issues are adequately addressed at CEQA level, and that General Plan/LCP policies and zoning ordinances are being complied with and enforced as necessary. In addition, implementation of policies is not always consistent with the City General Plan/LCP. One potential reason for this is that City decision-makers need to be better informed about erosion and sedimentation problems and solutions when they make decisions. This could require more communication between agency staff and the decision-makers. The City does not require that all storm drains contain grease/silt traps. Only three of the 21 drains that discharge into the Bay contain grease/silt traps. In addition, the City's Storm Drain Master Plan does not address aging metal drains and pipelines (many lines within the City are at least 30-years-old and may be in need of maintenance or replacement). A rupture of a storm drain in
	•	Approximately 20% of the City's Public Works budget is dedicated to the street-sweeping program. In dry years, this program appears to be very effective as it keeps sediment and debris out of the storm drains and out of the Bay. In extreme wet years, however, the program's effectiveness is outweighed by the problem of aging storm drains: the amount of sediment removed from the streets during street sweeping is considerably smaller than the amount of sediment that reaches the Bay during a rupture of a storm drain. City agencies coordinate very well with each other through regular meetings. The City Planning and Building Department staff also coordinate well with other agency staffs such as the Coastal Commission on LCP-related issues.

County of San Luis Obispo

- The County's General Plan/LCP and Area Plan policies and programs appear to effectively address the control of sediment from urban sources, including new development such as grading and construction. In general, goals, responsibilities and procedures are clearly-stated. However, corresponding ordinances do not require that any consideration of the effect of drainage water on receiving water quality. In addition, no ordinances address routine grading or tree and riparian vegetation removal on agricultural lands. Identifying related policies and ordinances, can also be time-consuming, as the policies and ordinances that address sedimentation are located in different land use sections of the General Plan/LCP. An appendix summarizing NPS-related policies and ordinances would better inform planners and the public about bacteria issues.
- Most regulation by the County is triggered by a request for new development. The County cannot regulate many activities on agricultural land because they are considered existing agricultural uses that do not require a permit. In some instances, there is concern that farmers will not install erosion- and sediment-control measures on agricultural lands, which would require permits, because the permitting process appears to be burdensome.
- Additional planning staff could improve the County's ability to adequately enforce General Plan/LCP policies and zoning ordinances, and to ensure that sedimentation issues are adequately addressed at CEQA level.
- Public agency projects, such as golf courses, have not received the same level of review or enforcement as private development projects.
- Implementation of policies is not always consistent with the County General Plan/LCP. A potential reason for this is that decision-makers could to be better informed about erosion and sedimentation problems and solutions when making decisions; in addition, coordination could be increased between decision-makers and County agencies.
- County agency coordination with other agencies, such as CCC, DFG, SLC, RWQCB is relatively good.
- Methods used by the County Engineering Department for road maintenance specifically the placement of spoils from road projects in locations that facilitate soil being washed by rains into the estuary—need to be reviewed by the County and revised, and/or the County should involve the RWQCB in implementing better practices.

Coastal San Luis RCD

- The RCD is held in good regards with both the public and with other local, State and federal agencies. There is excellent coordination in implementing sedimentation-control projects on a public and government level, and RCD programs and projects have been successfully implemented within the Morro Bay watershed.
- Lack of sufficient funding to conduct or finance projects is often a limiting factor in the RCD's ability to address other sources of rapid sedimentation throughout the watershed.

TABLE 4.1B
State/Federal Regulatory Program Effectiveness
Addressing Sedimentation in Morro Bay Watershed

	Effectiveness Analysis
Agency	Effectiveness Auniysis,
Functions/	
<u>Specific</u>	
<u>Program</u>	
SWRCB	Successful Aspects:
İ	Clear goals and responsibilities
	Complementary programs
	Support through statutory authority
	Support of the public
	Problems:
	Difficulties in coordinating/cooperating with other organizations
	Insufficient resources
1	Other Comments:
Ī	• Improvements could be made by better coordination and cooperation amongst all
	the programs themselves
}	• The State's NPS program would benefit from an upgrade, while the CNPCP is
	still in development
Į.	• The SWRCB should provide outreach materials on these plans to the NEP when
	new standards are adopted
TMDL	Successful Aspects:
TIMEL	Complementary programs
İ	Support through statutory authority
.	Problems:
1	
	Unclear goals, responsibilities, and procedures Language and procedures
	Insufficient resources
	Lack of public support

RWQCB Successful Aspects: Clear goals, responsibilities and procedures Complementary programs Support through statutory authority Difficulty in coordinating/cooperating with other organizations and with dischargers Successful Aspects: Support of the public Problems: Unclear responsibilities and procedures Competing/conflicting programs (TMDL & NPS) Difficulties in coordinating/cooperating with other agencies and organizations Insufficient resources Other Comments: The public but does not seem to understand what is involved in development and implementation of a TMDL. Suggestions: More outreach to local government agencies by regional board staff, informational brochures to improve public support, consolidating the permitting functions at one key agency to facilitate implementation of consistent or regional watershed conservation measures. Use permitting models such as the one NRCS uses in Elkhorn Slough, where they acquired a regional Section 404/401 permit for conservation measures approved by all agencies. Landowners in-turn go through NRCS, as opposed to going through four or five agencies, to obtain necessary approvals. CCC Successful Aspects: Good coordination/cooperation with local government staffs on LCP-related issues, and with other state and federal agencies in ensuring that issues related to grading and vegetation removal are addressed properly Problems: • Insufficient resources Suggestions: More outreach to local government agencies by CCC staff, including facilitating the implementation of regional watershed conservation measures and urban runoff programs that are consistent with the CNPCP as well as CWA Section 319 Use permitting models such as the one NRCS uses in Elkhorn Slough where landowners go through NRCS, instead of four or more agencies, to obtain necessary approvals for implementation of conservation measures. DFG Problems: Insufficient resources Other Comments: Lack of staff to complete effective review of CEOA documents related to sedimentation impacts on fish and wildlife, and a lack of wardens to enforce Fish and Game Code policies. DFG could also improve its outreach to the general public to improve understanding and acceptance of their role in protecting the Bay and its beneficial uses. Lake/Streambed Alteration Agreements are an effective regulatory mechanism for protecting fish and wildlife from sources that could increase sedimentation levels in the watershed.

USEPA

Successful Aspects:

- Clear goals, responsibilities and procedures
- Complementary programs
- Support through statutory authority
- Support of the public

Problems

- Difficulties in coordinating/cooperating both internally and with other agencies
- Insufficient resources

Other Comments:

Increase public outreach

Successful Aspects:

Problems:

- Unclear responsibilities and procedures
- Competes/conflicts with existing programs
- Difficulties in coordinating/cooperating with other agencies
- Insufficient resources

Other Comments:

 The TMDL program is the closest existing model for a statutory basis for watershed planning and management and supports environmental and watershed interests.

Suggestions:

- Public needs to be more informed about TMDLs
- Local education and outreach from Regional Board to stakeholder groups
- Increased funding through State legislature, education, buy-in and leadership from State agency management to implement this process as required by the CWA.

ACOE

Successful Aspects:

- Clear goals, responsibilities and procedures
- Support through statutory authority

Problems

- Duplicate efforts of other agencies such as those of DFG and the RWQCB
- Insufficient resources

Other Comments:

- Coordination/cooperation with other agencies and organizations and support of the public both vary with the specific project being reviewed or permitted.
- Program improvements could include implementation of watershed management plans, special area management plans, mitigation banks, in-lieu fee agreements, better communication and coordination and development of regional general permits.

TABLE 4.1C
State/Federal Resource Management Program Effectiveness
Addressing Sedimentation in the Morro Bay Watershed

Agency	Effectiveness Analysis	
Functions/		
Specific Program		
SWRCB	 Successful Aspects: Complimentary programs Support through statutory authority Problems: Unclear goals, responsibilities and procedures Difficulties in coordinating/cooperating internally amongst programs and with other agencies Insufficient resources Lack of support from management Other Comments: Implementation of the State's CNPCP is in development and cannot be evaluated at this time. However, the SWRCB and CCC anticipate implementing the 15- and 5-year strategies in part through interagency taskforces to guide and coordinate the polluted-runoff-management efforts of State, local and federal agencies in California. The CCC and SWRCB staffs are currently working to identify a process by which other agencies, stakeholder groups, and other members of the public can review and comment on the Management Measures Review document and the 15- and 5-year Implementation Strategies. 	

RWQCB	Successful Aspects:
	Clear goals and responsibilities
	• Good coordination/cooperation with other internal organizations and activities
	such as the Watershed Management Initiative and TMDLs
	Good coordination with other organizations regarding NPS management issues
	Support through statutory authority
	Problems:
	Unclear procedures to meet the goals
	Insufficient resources
	Lack of public support
	Other Comments:
•	• The public does not generally understand State authority to regulate NPS
	pollution, nor fully understands that many acceptable land use activities
	contribute to this type of pollution.
	Suggestions:
	Develop incentives to implement NPS control measures such as streamlined
	permitting, increasing outreach to agriculture interest groups, and sharing
	information with other regions in the State and improving state-wide
	consistency so effective approaches and tools can be applied locally.
Monitoring	Successful Aspects:
Efforts	Clear goals, responsibilities and procedures
	Complementary programs
	Good coordination/cooperation with other organizations
	Support through statutory authority
1	Support of the public
1	Problems:
	• Insufficient resources
	Other Comments:
	• Efforts together are not comprehensive. Gaps exist in locations and frequency
	of monitoring and in compatibility of data generated by the various efforts.
CCC	See SWRCB discussion on the CNPCP
CA Nat'l	Implements measures to control sedimentation and improve water
Guard/	
Camp SLO	
SCC	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complement other programs and priorities
	Good coordination/cooperation with other organizations
	Sufficient resources for activities to date
	Support through statutory authority
	Support of the public and the Morro Bay Task Force
	Other Comments:
	• The SCC has been exemplary in implementing resource management projects
	in the Morro Bay watershed. Its coordination with both government agencies
	and with public should be used as a model for future projects throughout the
	watershed.
	• The SCC has completed all scheduled activities in the watershed to date.
	Additional funding is needed for projects that are still deemed necessary to
	maintain and continue to enhance the area's resources.

NRCS

Successful Aspects:

- Clear goals
- Complementary programs
- Good coordination/cooperation with other organizations
- Supported by the public

Problems:

- Insufficient recourses both to provide directly to landowners for installation of conservation practices and to support continuation of NRCS staff efforts at public education and technical assistance
- Program effectiveness could be improved

Other Comments:

• Integrated their efforts and participated in development of the CCMP

Suggestions:

The agency would also benefit by having access to geomorphology expertise to advise on restoration needs for Los Osos Creek.

USEPA	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complementary programs
	Support through statutory authority
	Problems:
	Difficulties in coordinating/cooperating internally and with other agencies
	• Insufficient resources
	Poor public outreach
NEP	Successful Aspects:
1717	• Clear goals
	i combanional brogramm
	Good coordination/cooperation with other organizations
	Uniqueness of the program
	• Support of the public •
	Problems:
	Insufficient resources
	Lack of statutory authority
	Suggestions:
	• Improve USEPA guidance to include assistance with clarifying roles and
	responsibilities, managing multiple fund sources and understanding agency
	liability.
NPSPC/	Successful Aspects:
CZARA	Clear goals, responsibilities and procedures
	Complementary programs
	Good coordination/cooperation with other agencies
]	Support through statutory authority
	Support of the public
	Problems:
	Insufficient resources
i	Suggestions:
	More efforts like the Clean Water Action Plan which promote increased
ļ	collaboration
	Integrate approaches among all levels of government
	• Revision of the CWA § 319 allocation formula to provide equity in funding to
	Western States
Water	Successful Aspects:
Quality	Clear goals, responsibilities and procedures
Assessment	Complementary programs
<u> </u>	Support through statutory authority
	Problems:
	Insufficient resources
1	Suggestions:
	• Use the California Geo-Waterbody Systema GIS database being developed at
	UC Davis which aims to simplify and make consistent the reporting
	requirements of CWA § 305(b); this will help facilitate the RWQCB's required
TIOPEC	biennial reporting process.
USFS	• Implements erosion and sedimentation, including rangeland management
].	(grazing allotments and permits), forestland management (reforestation), and
	soil/water/air protection (reclamation of abandoned mines).
	de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la

TABLE 4.1D
State/Federal Finance Mechanism Effectiveness
Addressing Sedimentation in the Morro Bay Watershed

	Addressing Sedimentation in the Morro Bay Watershed		
Agency	Effectiveness Analysis		
Functions/			
Specific:			
<u>Program</u>			
SWRCB/	Successful Aspects:		
RWQCBs	Clear goals, responsibilities and procedures		
	Complementary programs		
	• Good coordination/cooperation with other state and local agencies		
1	Support through statutory authority		
	Support of the public		
	Problems:		
	Insufficient funds		
1	Other Comments:		
	• The State Revolving Fund program exhibits difficulties in coordinating and		
	cooperating with other organizations but has sufficient resources to be		
	effective.		
	• The Underground Storage Tank Cleanup Fund program is well-coordinated		
İ	with local agencies and has sufficient resources.		
	Suggestions:		
	• These finance mechanisms would be more effective if coordination internally		
	and with other organizations were improved to clarify funding priorities		
	within watersheds, which would avoid duplication of spending.		
	• The Clean Water Act Grant Fund activities would be more effective by		
	expediting the process of making the federal funds available to local agencies		
DEC/	and organizations.		
DFG/ Wildlife	DFG funding for projects that address sedimentation issues effectively fulfills the mandates and mission of the DFG.		
Conservation	Insufficient resources		
Board	Insufficient resources		
SCC	Successful Aspects:		
SCC	Clear goals, responsibilities and procedures		
1	Complement other programs and priorities		
	Good coordination/cooperation with other organizations		
	Uniqueness of the program		
	Sufficient resources for activities to date		
	Support through statutory authority		
	Support by the public and the Morro Bay Task Force		
	Other Comments:		
	• The SCC has been exemplary in implementing resource management projects		
	in the Morro Bay watershed. Its coordination with both government agencies		
}	and with public should be used as a model for future projects throughout the		
	watershed.		
	• The SCC has completed all scheduled activities in the watershed to date.		
1	Additional funding is needed for projects that are still deemed necessary to		
<u></u>	maintain and continue to enhance the area's resources.		

USEPA Successful Aspects: Clear goals Complementary programs Good coordination/cooperation with other organizations Uniqueness of the program (no funding duplication) Supported by other agencies and the public Problems: Insufficient resources Lack of statutory authority Suggestions: Make information on available grants more accessible to the public Automate and expedite the grant process.

TABLE 4.1E
Other State/Federal Non-Regulatory Programs Effectiveness
Addressing Sedimentation In The Morro Bay Watershed

	Addressing Sedimentation in The World Day Watershed
Agency	Effectiveness Analysis
Functions/	
Specific	
Program	and the state of t
RWQCBs	Successful Aspects:
-	Clear goals, responsibilities and procedures
	• Complements the activities of the NEP, National Monitoring Program, and the
	Shellfish Technical Advisory Committee.
	Good coordination/cooperation with other organizations
	Uniqueness of the program
	Support of the public
	Problems:
	Insufficient resources
	Suggestions:
	Expand the hands-on monitoring to other stakeholder groups
	• Increase funds to support a volunteer coordinator, equipment purchases, data
	analysis, and lab costs.
	• Provide more direct involvement by Regional Board staff in the Ranch
	Planning Water Quality Short Course.
DOC	• Provides technical assistance and outreach to public agencies and private
	entities.
CA Nat'l	<u> </u>
Guard/	measures for land restoration; implements a Stormwater Pollution Prevention
Camp SLO	Plan.
U. C. Coop	• Provides water-quality-related education and outreach to farmers and ranchers.
Extension	
NRCS	Successful Aspects:
	Complements other programs
	Good coordination/cooperation with other organizations and internal programs
	Support of the public
	Problems:
	Insufficient resources
	Suggestions:
	Greater outreach to the public so that more landowners could receive education
	and assistance with conservation techniques.
	Annual Control of the

4.2 EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING BACTERIA

TABLE 4.2A Local Program Effectiveness Addressing Bacteria in Morro Bay Watershed

Agency	Effectiveness Analysis
City of	
Morro Bay	Control Board has limited new development within City borders, additional
	planning department staff would help to ensure that bacteria issues are
	adequately addressed at the CEQA level, that implementation of policies is
	more consistent with the City General Plan/LCP, and that General Plan/LCP
	policies and zoning ordinances are being complied with and enforced as
	necessary. Over the past several years, the Department has been operated by only one full-time staff person. There are also too few staff working for the
	Harbor Department to effectively enforce the liveaboard ordinance.
1	Identification of General Plan/LCP policies and ordinances that address bacteria
	can be time-consuming, as these policies and ordinances are located in different
	land-use and water quality sections of the General Plan/LCP. An appendix
	summarizing NPS-related policies and ordinances would better inform planners
	and the public about bacteria-related issues.
	• The City cannot enforce its liveaboard ordinance if boats move beyond the
1	City's jurisdiction. The County and State Department of Parks must develop
	similar policies/ordinances/programs and Recreation to ensure that boat owners
. !	properly dispose of their head wastes.
	• City decision-makers would benefit by being better informed about bacteria- related problems and solutions when they make decisions. This would require
	more communication between agency staff and the decision-makers.
	• In general, the City Department staffs coordinate well with each other. The
	City Planning and Building Department staff also coordinate well with other
	agency staffs such as the Coastal Commission on LCP-related issues.
	• Identification of General Plan/LCP policies and ordinances that address bacteria
	can be time-consuming, as these policies and ordinances are located in different
	land -use and water quality sections of the General Plan/LCP. An appendix
	summarizing NPS-related policies and ordinances would better inform planners and the public about bacteria issues.
	• There are few and often times inaccessible pumpout facilities available to
	boaters. One is always inaccessible, two are kept locked up (although the
	harbor department will open the facilities up when requested), and the fourth is
	at a private business (Beacon gas station). Although harbor officials report that
	citizens bring their waste into the restrooms at the park, it is extremely probable
ļ	that some of these individuals do not. The extent of the problem is currently
	unknown. Additional and more accessible facilities are essential to addressing
1	marina and boating sources of bacteria. A mobile pump-out service that goes to
	boats and live-aboards may be a solution provided the funding can be obtained.

County of San Luis Obispo

- Identifying bacteria-related policies and ordinances in the County's General Plan/LCP and Area Plans can be time-consuming, as the policies and ordinances that address bacteria are located throughout the General Plan/LCP. An appendix summarizing NPS-related policies and ordinances would better inform planners and the public about bacteria issues.
- Implementation of policies is also not always consistent with the County General Plan/LCP. A potential reason for this is that decision-makers need to be better informed about bacteria-related problems and solutions when making decisions. In addition, coordination could be increased between decision-makers and County agencies. This would require more communication between agency staff and the decision-makers.
- Additional planning staff could improve the County's ability to address bacteria issues at the CEQA level and to adequately enforce General Plan/LCP policies and zoning ordinances.
- County agencies coordinate relatively well with other agencies, such as the CCC, DFG, SLC, RWQCB.
- The Environmental Health agency's Small Water Program is considered by both the State Health agency and the general public as a very effective program. The other programs are also thought to be quite effective in monitoring for bacteria levels and are all supported by the public, statutory authority and receive sufficient resources to carry out the mandates of the programs.
- County's planning, operation and maintenance of storm drain facilities does not address storm water quality comprehensively.
- Most regulation by the County is triggered by a request for new development. The County cannot regulate many activities on agricultural land because they are considered existing agricultural uses that do not require a permit. In some instances, there is concern that farmers will not install measures to control bacteria on agricultural lands, which would require permits, because the permitting process appears to be burdensome.
- The County should develop and enforce policies, ordinances, and/or programs similar to the City of Morro Bay's liveaboard ordinance to ensure that boat owners that move their vessels beyond the City's jurisdiction will properly dispose of their head wastes.

TABLE 4.2B
State/Federal Regulatory Program Effectiveness
Addressing Bacteria in the Morro Bay Watershed

	Addressing Bacteria in the Morro Bay Watershed
Agency Functions/	Effectiveness Analysis
Specific Program	
SWRCB	Successful Aspects: Clear goals and responsibilities Complementary programs Support through statutory authority Support of the public Problems: Coordination and cooperation amongst the programs themselves, as well as with other organizations Insufficient resources Other Comments: The State's NPS program would also benefit from an upgrade, which could be coordinated with the development and implementation of the State CNPCP.
TMDL	 The Inland Surface Waters Plan and enclosed Bays and Estuaries Plan are not effective. The SWRCB should provide outreach materials on these plans to the NEP when new standards are adopted. Problems: Unclear goals, procedures and responsibilities Lack of support/understanding from the public Insufficient funds
RWQCB	Successful Aspects: Clear goals, responsibilities and procedures Complementary programs Support through statutory authority Problems: Difficulties in coordinating/cooperating with other agencies, dischargers and the
TMDL	general public Problems: Unclear responsibilities and procedures Difficulties in coordination/cooperation with other agencies and organizations Insufficient resources (extremely) Other Comments: The public tends to support the program but does not seem to understand what is involved in development and implementation of a TMDL. The TMDL process addresses NPS pollution management, but the agency priorities related to TMDL development and implementation do not necessarily coincide with agency NPS pollution management priorities. Implementation in the State has been time-consuming and very expensive

CCC	Successful Aspects: Coordinate well with local government staffs on LCP-related issues, and with other state and federal agencies. Problems:
	• Insufficient resources Other Comments:
	 Lack of staff resources is a limiting factor in both CEQA review process and enforcement process in addressing sources of bacteria. The CCC's regulations that address bacteria are primarily limited to new
	development permits, enforcement of conditions, and amendments to the city and county LCP. These functions are especially effective in the siting of new development other than agricultural development.
	Suggestions:
	 More outreach to local government agencies by CCC staff, including facilitating the implementation of regional watershed conservation measures and urban runoff programs that are consistent with the CNPCP as well as CWA Section 319.
	Using permitting models such as the one NRCS uses in Elkhorn Slough where landowners go through NRCS, instead of four or more agencies, to obtain necessary approvals for implementation of conservation measures.
DFG	Successful Aspects:
Ì	Good coordination/cooperation with other agencies and with the public
	Problems:
	• Insufficient resources (staff and funds) to enforce policies and regulations on a regular basis, and to complete effective review of CEQA documents for projects
	that may generate bacteria in the watershed.
·	Other Comments:
	• Contains strong enforceable policies to protect fish and wildlife from activities that could potentially increase bacteria levels in the watershed.
<u></u>	Lack of outreach to the general public
DHS	Successful Aspects:
	• Good coordination with other agencies
	Other Comments:
Ì	• Long-term bacteria monitoring has provided a useful record for assessing potential impacts from bacteria.
	Have strong enforceable policies and regulations
l 	1

USEPA	Successful Aspects:
	Clear goals, responsibilities and procedures
}	Complementary programs
	Support through statutory authority
1	Problems:
	Difficulties in coordinating/cooperating internally and with other agencies
	Insufficient funding
	Other Comments:
·	Provides the basis for many other programs
	Lack of public outreach
TMDL	Successful Aspects:
i .	Support through statutory authority
ì	Supports environmental and watershed interests
	Problems:
	Unclear responsibilities and procedures
ļ	Competes/conflicts with existing programs
	Difficulties in coordinating/cooperating with other agencies
	• Insufficient resources
	General public not informed
	Suggestions:
}	• Local education and outreach from Regional Board to public stakeholder groups
	• Increase funding through State legislature, education, buy-in and leadership from
	State agency management to implement this process required by the CWA.
USCG	Regulates vessel waste disposal from marine sanitation devices

TABLE 4.2C
State/Federal Resource Management Program Effectiveness
Addressing Bacteria In The Morro Bay Watershed

Agency	Effectiveness Analysis
Functions/	Directiveness renarysis.
Specific	
Program	
SWRCB	Successful Aspects:
	Complementary programs
	Support through statutory authority
ļ	Problems:
	Unclear goals, responsibilities and procedures
	• Difficulties in coordinating/cooperating internally amongst programs and with
	other agencies.
1	Insufficient resources
	Lack of support from management
RWQCB	Successful Aspects:
NPS	Clear goals, responsibilities and procedures
	• Complementary programs
	 Good coordination/cooperation internally and with other organizations Support through statutory authority
	• Support through statutory authority • Support of the public
i	Other Comments:
	• Local public supports these efforts but does not generally understand State
ļ	authority to regulate NPS pollution. The public does not seem to fully
* .	understand that many acceptable land use activities contribute to this type of
	pollution.
<u> </u>	Suggestions:
İ	• Develop incentives to implement NPS control measures such as streamlined
	permitting, increasing outreach to agriculture interest groups, and sharing
j	information with other regions in the State and improving state-wide consistency
.	so effective approaches and tools can be applied locally.
Monitoring	Successful Aspects:
Efforts	 Clear goals, responsibilities and procedures Complementary programs
	Good coordination/cooperation with other organizations
1	Support through statutory authority
	• Support of the public
	Problems:
	Insufficient resources
	• Not comprehensive. Gaps exist in locations and frequency of monitoring and in
L	compatibility of data generated by the various efforts.

NRCS	Successful Aspects:
MCS	Clear program goals
•	
	 Complementary programs Good coordination/cooperation with other organizations
\	
	• Support from the public
	• Allowed NRCS staff to integrate their efforts and participate in development of
	the CCMP
	Other Comments:
	• This has been one of NRCS's most effective programs in the Morro Bay
	Watershed.
	Suggestions:
	 Program would improve with additional funds both to provide directly to landowners for installation of conservation practices and to support continuation of NRCS staff efforts at public education and technical assistance.
	Have access to geomorphology expertise to advise on restoration needs for Los Osos Creek
	Have NRCS facilitate and promote permit-streamlining efforts locally in order to
1	remove permitting hurdles, which currently create a disincentive to local
	landowners for implementing conservation practices. Permit-streamlining pilot
i	projects, currently being conducted in the Elkhorn Slough Watershed and
	initiated in the Salinas River Watershed, may be appropriate to transfer to the
	Morro Bay Watershed.
USEPA	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complementary programs
	Support through statutory authority
	•
	• Provides the basis for many other programs <u>Problems</u> :
	Difficulties in coordination/cooperation internally and with other agencies
	Insufficient funding
l	Lack of public outreach
NPSPC/	Successful Aspects:
CZARA	Clear goals, responsibilities and procedures
	Complementary programs
	Good coordination/cooperation with other agencies
	• Support through statutory authority
1	Support of public
	Problems:
j	• Insufficient resources
1	Suggestions:
	• More efforts like the Clean Water Action Plan which promote increased
	collaboration and integrated approaches among all levels of government, revision
L	of 319 allocation formula to provide equity to the Western States.

TABLE 4.2D
State/Federal Finance Mechanism Effectiveness
Addressing Bacteria in the Morro Bay Watershed

	Addressing Dacteria in the Morto Day Watershed
Agency	Effectiveness Analysis
Functions/	
Specific	
Program	
SWRCB	Successful Agreeter
SWKCD	Successful Aspects:
j	Clear goals, responsibilities and procedures
1 *	Complementary programs
1	Good coordination/cooperation with other state and local agencies
ļ	Support through statutory authority
·	Problems:
	• Insufficient funds
State	Successful Aspects:
Revolving	Sufficient resources
	Problems:
<u>Fund</u>	
	Difficulties in coordinating/cooperating with other agencies
RWQCB	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complementary programs
	Good coordination/cooperation with other organizations
1	Uniqueness of the program
	Support through statutory authority
	Public support
	Suggestions:
ł	• The Clean Water Act Grant Fund activities would be more effective if the
	The Clean water Act Grant Fund activities would be more effective in the
	process of making these federal funds available to local agencies and
	organizations could be expedited.
DBW	• Administers the Pumpout Grant Program which has not been used in Morro Bay.
NRCS	Successful Aspects:
İ	Clear goals, responsibilities and procedures
	Complementary programs
	Good coordination/cooperation with other organizations
	Support through statutory authority
1	Other Comments:
	• Landowners are not currently taking advantage of these programs to the extent
	possible and the opportunities to tap into these nation-wide resources are limited
	within the watershed.
USEPA	Successful Aspects:
	Clear goals
}	Complementary programs
	Good coordination/cooperation with other organizations
	Uniqueness of the program
1	• Support of the public
1	Problems:
1	• Insufficient resources
	
1	• Lack of statutory authority
1	Suggestions:
1	• Information on available grants should be more accessible to the public
	The grant process should be expedited through automation
USFWS	Administers Clean Vessel Act Grants but have not been used in Morro Bay.

TABLE 4.2E
Other State/Federal Non-Regulatory Programs Effectiveness
Addressing Bacteria in the Morro Bay Watershed

Agency Functions/ Specific Program	Effectiveness Analysis
RWQCBs	 Successful Aspects: Clear goals, responsibilities and procedures Complements the activities of the NEP, National Monitoring Program, and the Shellfish Technical Advisory Committee Good coordination/cooperation with other organizations Uniqueness of the program Support of the public Problems: Insufficient resources Suggestions: The program could be improved by expanding the hands-on monitoring to other stakeholder groups, increasing funds to support a volunteer coordinator, equipment purchases, data analysis, and lab costs, and providing more direct involvement by Regional Board staff in the Ranch Planning Water Quality Short Course.
CCC	Implements boater education
DBW	• Involved in developing and distributing educational/technical information regarding vessel pumpout locations and State and federal marine pollution laws
UCCE	Provides education and outreach to farmers and ranchers
NRCS	Successful Aspects: Complementary programs Good coordination/cooperation with other organizations and internal programs Support of the public Suggestions: Program effectiveness could be improved with additional funds so that more landowners could receive education and assistance with conservation techniques.

4.3 EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING NUTRIENTS

TABLE 4.3A Local Program Effectiveness Addressing Nutrients in Morro Bay Watershed Effectiveness Analysis

Agency	Effectiveness Analysis
City of	• Although a moratorium on septic systems imposed by Regional Water Quality
Morro Bay	Control Board has limited new development within City borders, additional
	planning department staff would help to ensure that nutrient-related issues are
Į	adequately addressed at the CEQA level, that implementation of policies is more
	consistent with the City General Plan/LCP, and that General Plan/LCP policies
	and zoning ordinances are being complied with and enforced as necessary. Over
	the past several years, the Department has been operated by only one full-time
	staff person. There are also too few staff working for the Harbor Department to
	effectively enforce the City's liveaboard ordinance.
	• Identification of General Plan/LCP policies and ordinances that address nutrients
	can be time-consuming, as these policies and ordinances are located in different
	land-use and water quality sections of the General Plan/LCP. An appendix
	summarizing NPS-related policies and ordinances would better inform planners
	and the public about nutrient-related issues.
	• The City cannot enforce its liveaboard ordinance if boats move beyond the city's
	jurisdiction. Similar policies/ordinances/programs should be developed and
	implemented by the County and State Department of Parks and Recreation to
	 ensure that boat owners properly dispose of head wastes. City decision-makers would also benefit by being better informed about nutrient-
1	related problems and solutions when they make decisions. This would require
]	more communication between agency staff and the decision-makers.
	• In general, the City Department staffs coordinate well with each other. The City
	Planning and Building Department staff also coordinate well with other agency
	staffs such as the Coastal Commission on LCP-related issues.
	• Overall, the Public Works Department's street-sweeping program is considered
	to be very effective. Because of the pitch canker disease, the amount of pine
	needles falling to City streets has increased, making the street sweeping program
	even more necessary. Reducing the amount of leaves and pine needles off the
	street can be improved by implementing a maintenance program to maintain
	trees. This could lessen the need for more sweeping, which also would lessen
	overall operation costs.
	• There are few and often times inaccessible pumpout facilities available to
	boaters. One is always inaccessible, two are kept locked up (although the harbor
	department will open the facilities up when requested), and the fourth is at a
	private business (Beacon gas station). Although harbor officials report that
	citizens bring their wastes into the restrooms at the park, it is extremely probable that some of these individuals do not. The extent of the problem is currently
	unknown. Additional and more accessible facilities are essential to addressing
	marina and boating sources of nutrients. A mobile pump-out service that goes to
	boats and liveaboards may be a solution provided the funding can be obtained.
	The man in the court of the provided the funding out of countries.

County of San Luis Obispo

- Identifying nutrient-related policies and ordinances in the County's General Plan/LCP and Area Plans can be time-consuming, as the policies and ordinances that address nutrients are located throughout the General Plan/LCP. An appendix summarizing NPS-related policies and ordinances would better inform planners and the public about nutrient issues.
 - Implementation of policies is also not always consistent with the County General Plan/LCP. A potential reason for this is that decision-makers could to be better informed about nutrient-related problems and solutions when making decisions; in addition, coordination could be increased between decision-makers and County agencies. This would require more communication between agency staff and the decision-makers.
 - Additional planning staff could improve the County's ability to address nutrient issues at the CEQA level and to adequately enforce General Plan/LCP policies and zoning ordinances.
 - County agencies coordinate relatively well with other agencies, such as the CCC, DFG, SLC, RWOCB.
 - The Environmental Health agency's Small Water Program is considered by both the State Health agency and the general public as a very effective program. The other programs are also thought to be quite effective in monitoring for nutrient levels and are all supported by the public, statutory authority and receive sufficient resources to carry out the mandates of the programs.
 - County's planning, operation and maintenance of storm drain facilities does not address storm water quality comprehensively.
 - Most regulation by the County is triggered by a request for new development. The County cannot regulate many activities on agricultural land because they are considered existing agricultural uses that do not require a permit. In some instances, there is concern that farmers will not install measures to control nutrients on agricultural lands, which would require permits, because the permitting process appears to be burdensome.
 - The County should develop and enforce policies, ordinances, and/or programs similar to the City of Morro Bay's liveaboard ordinance to ensure that boat owners that move their vessels beyond the City's jurisdiction will properly dispose of their head wastes.

TABLE 4.3B
State/Federal Regulatory Program Effectiveness
Addressing Nutrients in the Morro Bay Watershed

	Addressing Nutrients in the Morro Bay Watershed
Agency	Effectiveness Analysis
Functions/	
Specific	
<u>Program</u>	
SWRCB	Successful Aspects:
1	Clear goals and responsibilities
	Complementary programs
ŀ	Support through statutory authority
	Support of the public
	Problems:
	• Difficulties in coordinating/cooperating amongst the programs themselves, as
	well as with other organizations
	Insufficient resources
	Suggestions:
	• The State's NPS program would benefit from an upgrade, while the CNPCP is
	still in development.
RWQCB	Successful Aspects:
	Clear goals, responsibilities and procedures
l	Complementary programs
ĺ	Support through statutory authority
	Problems:
	• Difficulties in coordinating/cooperating with other agencies, dischargers and the
	general public
CCC	Successful Aspects:
	• Good coordination/cooperation with local government staffs on LCP-related
İ	issues, and with other state and federal agencies in ensuring that issues related
	nutrient releases are addressed properly
	Problems:
	• Insufficient resources
}	Other Comments:
<u> </u>	• Lack of staff resources is a limiting factor in both CEQA review process and
	enforcement process in addressing sources of nutrients.
ļ	• The CCC's regulations that address nutrients are primarily limited to new
ļ	development permits, enforcement of conditions, and amendments to the city and
•	county LCP. These functions are especially effective in the siting of new development other than agricultural development.
	Suggestions:
1	 More outreach to local government agencies by CCC staff, including facilitating
	the implementation of regional watershed conservation measures and urban
	runoff programs that are consistent with the CNP as well as CWA Section 319
į.	• Using permitting models such as the one NRCS uses in Elkhorn Slough where
	landowners go through NRCS, instead of four or more agencies, to obtain
	necessary approvals for implementation of conservation measures
L	independent approvium for implementation of conservation measures

TABLE 4.3C
State/Federal Resource Management Program Effectiveness
Addressing Nutrients in the Morro Bay Watershed

	Addressing Nutrients in the Morro Day Watershed
Agency	Effectiveness Analysis
Functions/	
Specific	
<u>Program</u>	
SWRCB	Successful Aspects:
1	Complementary programs
1	Support through statutory authority
	Problems:
	Unclear goals, responsibilities and procedures
Ì	• Difficulties in coordinating/cooperating internally amongst programs and with
	other agencies
]	• Insufficient resources
	Lack of support from management
RWQCB	Successful Aspects:
NPS	Clear goals, responsibilities and procedures
	Complementary activities
	Good coordination/cooperation internally and with other organizations
	Support through statutory authority
	• Local public supports these efforts but does not generally understand State authority to regulate NPS pollution. The public does not seem to fully understand that many acceptable land use activities contribute to this type of
]	pollution.
	Suggestions:
	• Develop incentives to implement NPS pollution practices such as streamlined
ĺ	permitting. • Increase outreach to fishing and agriculture interest groups
Ì	Increase technical assistance to municipal agencies
Monitoring	Successful Aspects:
Efforts	Clear goals, responsibilities and procedures
EHOLES	Complementary programs
1	Good coordination/cooperation with other organizations
1	Support through statutory authority
j	Support of the public
1	Problems:
1	• Insufficient resources
Ĭ.	• Not comprehensive; gaps exist in locations and frequency of monitoring and in
1	compatibility of data generated by the various efforts.

333.66	
NRCS	Successful Aspects:
	Clear program goals
	Complements other programs
	Good coordination/cooperation with other organizations
l	Support from the public
	Problems:
•	Insufficient resources
	Other Comments:
	• This has been one of NRCS's most effective programs in the Morro Bay
Į.	Watershed.
	• Allowed NRCS staff to integrate their efforts and participate in development of
	the CCMP
	• Insufficient funds for landowners for installation of conservation practices and to
	support continuation of NRCS staff efforts at public education and technical
'	assistance
	• NRCS would also like to facilitate and promotes permit-streamlining efforts
	locally in order to remove permitting hurdles, which currently create a
1	disincentive to local landowners for implementing conservation practices.
	Permit-streamlining pilot projects, currently being conducted in the Elkhorn
	Slough Watershed and initiated in the Salinas River Watershed, may be
	appropriate to transfer to the Morro Bay Watershed.
USEPA	Successful Aspects:
	Clear goals, responsibilities and procedures
l	Complementary programs
	Support through statutory authority
	Provides the basis for many other programs
	Problems:
	• Difficulties in coordinating/cooperating internally and with other agencies
	• Insufficient funding
l	Lack of public outreach
NPSPC/	Successful Aspects:
CZARA	Clear goals, responsibilities and procedures
	Complementary programs
	Good coordination/cooperation with others
	Support through statutory authority
	Support of the public
	Problems:
	Insufficient resources
	Suggestions:
	• More efforts like the Clean Water Action Plan which promote increased
•	collaboration and integrated approaches among all levels of government
	• Revision of the federal CWA Section 319 fund allocation formula to provide
1	additional money to California
L.	The state of the s

TABLE 4.3D
State/Federal Finance Mechanism Effectiveness
Addressing Nutrients in the Morro Bay Watershed

Addressing Nutrients in the Morro Bay Watershed		
Agency Functions/	Effectiveness Analysis	
Specific Program		
	I Consected Associate	
SWRCB	Successful Aspects:	
ļ	 Clear goals, responsibilities and procedures Complement other programs 	
	Support through statutory authority	
CWA	Successful Aspects:	
CWA	Good coordination/cooperation with other state and local agencies	
	Problems:	
	• Insufficient funds	
	Successful Aspects:	
State	Sufficient resources	
Revolving	Problems:	
Fund	Difficulties in coordinating/cooperating with other organizations	
1	Suggestions:	
	• These finance mechanisms would be more effective if coordination internally and	
ļ	with other organizations were improved to clarify funding priorities within	
	watersheds. This would avoid duplication of spending. The Clean Water Act	
	Grant Fund activities would be more effective if the process of making these	
ł	federal funds available to local agencies and organizations could be expedited.	
RWQCB	Successful Aspects:	
	Clear goals, responsibilities and procedures	
	Complement other programs	
	Good coordination/cooperation with other organizations	
	Uniqueness of the program	
ł	Support through statutory authority	
	Public support	
	Suggestions:	
1	• Expedite the process of making these federal funds available to local agencies	
DDII.	and organizations.	
DBW	Administers the Pumpout Grant Program	
NRCS	Successful Aspects:	
	Clear goals, responsibilities and procedures Complement other programs	
	Complement other programs Good coordination/scongration with other organizations	
	Good coordination/cooperation with other organizations Support through statutors outhority.	
1	• Support through statutory authority Other Comments:	
1	• Landowners are not currently taking advantage of these programs to the extent	
	possible and the opportunities to tap into these nation-wide resources are limited	
	within the watershed.	
L	within the watershed.	

USEPA	Successful Aspects: Clear goals Complementary programs Good coordination/cooperation with other organizations Uniqueness of the program Support of the public Problems: Insufficient resources Lack of statutory authority Suggestions: Information on available grants should be more accessible to the public
	The grant process should be expedited through automation
USFWS	Administers Clean Vessel Act Grants

TABLE 4.3E

TABLE 4.5E
Other State/Federal New Decyloters: December Effectiveness
Other State/Federal Non-Regulatory Programs Effectiveness
Addressing Nutrients in the Morro Bay Watershed
Addressing Nutrients in the Morro Bay Watershed

Agency	Effectiveness Analysis
Functions/	
<u>Specific</u>	
Program (
RWQCBs	Successful Aspects:
}	Clear goals, responsibilities and procedures
	• Complements the activities of the NEP, National Monitoring Program, and the
	Shellfish Technical Advisory Committee
	Good coordination/cooperation with other organizations
ľ	Uniqueness of the program Date a second se
	Public support Problems:
	• Insufficient resources
ļ	Suggestions:
,	Expand the hands-on monitoring to other stakeholder groups
	• Increase funds to support a volunteer coordinator, equipment purchases, data
	analysis, and lab costs.
	• Provide more direct involvement by Regional Board staff in the Ranch
	Planning Water Quality Short Course.
CCC	Implements boater education program
DBW	Develops and distributes educational/technical information regarding vessel
	pumpout locations and laws and regulations regarding vessel sewage
N.COD	discharge/disposal
UCCE	Provides education and outreach to farmers and ranchers
NRCS	Successful Aspects:
į	 Complementary programs Good coordination/cooperation with other organizations and internal programs
	Support from the public
	Problems:
	• Effectiveness could be improved with additional funds so that more landowners
	could receive education and assistance with conservation techniques.
USCG	• Implements Sea Partners Campaign, which provides environmental education
	and outreach programs
USEPA	• In coordination with NOAA, provides management guidance to "Critical
	Coastal Areas" (those adjacent to impaired or threatened coastal waters)
<u> </u>	through the Coastal Nonpoint Pollution Control Program.

4.4 EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING HEAVY METALS/TOXINS

TABLE 4.4A Local Program Effectiveness Addressing Heavy Metals/Toxins in Morro Bay Watershed

Agency .		Effectiveness Analysis ()
City of	•	Additional planning staff are needed to ensure that concerns related to heavy
Morro Bay		metals/toxins are adequately addressed at the CEQA level, that implementation
		of policies is more consistent with the City General Plan/LCP, and that General Plan/LCP policies and zoning ordinances are being complied with and enforced
		as necessary. Over the past several years, the Planning Department has been
·		managed by one full-time staff person. The Harbor Department would also
		benefit from additional staff to maintain services to collect used oil and other
		wastes from boats. Alternatively, the City would benefit from funding to
		contract out for such services.
	•	Identification of General Plan/LCP policies and ordinances that address heavy metals/toxins can be time-consuming, as these policies and ordinances are
	ĺ	located in different land-use and water quality sections of the General
		Plan/LCP. An appendix summarizing NPS-related policies and ordinances
]		would better inform planners and the public about nutrient-related issues.
	•	City decision-makers would benefit by being better informed about heavy
		metal/toxins-related problems and solutions when they make decisions. This
		would require more communication between agency staff and the decision-makers.
	•	In general, the City Department staffs coordinate well with each other The City
		Planning and Building Department staff also coordinate well with other agency
		staff such as the Coastal Commission on LCP-related issues.
County of	•	Identifying water quality-related policies and ordinances in the County's
San Luis Obispo		General Plan/LCP and Area Plans can be time-consuming, as the policies and ordinances that address NPS pollutants are not located in one section of the
Obispo		General Plan/LCP. An appendix summarizing NPS-related policies and
		ordinances would better inform planners and the public about nutrient issues.
	•	Implementation of policies is also not always consistent with the County
	ļ	General Plan/LCP. A potential reason for this is that decision-makers could to
		be better informed about nutrient-related problems and solutions when making decisions; in addition, coordination could be increased between decision-
		makers and County agencies. This would require more communication
		between agency staff and the decision-makers.
1	•	Additional planning staff would improve the County's ability to address water-
		quality issues at the CEQA level and to adequately enforce General Plan/LCP
		policies and zoning ordinances. Most regulation by the County is triggered by a request for new development.
	ا	The County cannot regulate many activities on agricultural land because they
	1	are considered existing agricultural uses that do not require a permit. In some
		instances, there is concern that farmers will not install measures to control
		nutrients on agricultural lands, which would require permits, because the
<u> </u>	<u> </u>	permitting process appears to be burdensome.

Coastal San • Luis RCD

- The work of the RCD is well regarded by the public and other agencies. The agency coordinates well with other entities to implement BMPs and sediment-control projects. RCD programs and projects have been successfully implemented within the Morro Bay watershed.
- Lack of sufficient funding to conduct or finance projects is often a limiting factor in the RCD's ability to implement pesticide-control BMPs throughout the watershed.

TABLE 4.4B

State/Federal	l Regulatory Progran	1 Effectiveness
Addressing Heavy	Metals/Toxins in the	Morro Bay Watershed

Agency	Effectiveness Analysis
Functions/	
Specific .	
<u>Program</u>	
SWRCB	Successful Aspects:
	Clear goals and responsibilities
Ī	Complementary programs
	Support through statutory authority
	Support of the public
	Problems:
	Difficulties in coordinating/cooperating with other organizations
	Insufficient resources
ĺ	Other Comments:
	• Improvements could be made by better coordination and cooperation amongst the
	programs themselves.
	• The State's NPS program would benefit from an upgrade
	• The Inland Surface Waters Plan and Enclosed Bays and Estuaries Plan are not
	effective. When new standards are adopted, the SWRCB should provide outreach materials on these plans to the NEP.
TMDL	Problems:
TIME	Unclear goals, procedures and responsibilities
	• Insufficient funds
	Lack of public support
	Other Comments:
	Lack of understanding from the public
RWQCB	Successful Aspects:
_	Clear goals, responsibilities and procedures
1	Complementary programs
	Support through statutory authority
	Problems:
1	• Difficulties in coordinating/cooperating with other agencies, dischargers and the
	general public
	Other Comments: • Heavy metals and other toxins are commonly associated with urban runoff
·	Municipal urban runoff from the City of Morro Bay may be a source of metals to
	the Bay that is not currently regulated by any of these programs.
TMDL	Successful Aspects:
	Support of the public
	Problems:
	Unclear responsibilities and procedures
	Competing/conflicting programs
	Difficulties in coordinating/cooperation with other agencies
1	• Insufficient resources
	Other Comments:
	• Public does not seem to understand what is involved in development and
	implementation of a TMDL.

CCC	Sycanorial Agrants
	Successful Aspects: • Good coordination/cooperation with local government staff on LCP-related issues, and with other state and federal agencies in ensuring that issues related to water quality impacts of land uses are addressed properly
	Problems:
	Insufficient resources
*	Other Comments:
·	• CCC regulations that address generation of heavy metals/toxins are limited primarily to new development, enforcement of conditions, and amendments to the city and county LCP. These functions are especially effective in the siting of new development.
	Suggestions:
	• More outreach to local government agencies by CCC staff, including facilitating the implementation of regional watershed conservation measures and urban runoff programs that are consistent with the CNPCP as well as CWA Section 319.
	• Use permitting models such as the one NRCS uses in Elkhorn Slough where landowners go through NRCS, instead of multiple agencies, to obtain necessary approvals for implementation of conservation measures.
DFG	Successful Aspects:
	Good coordination/cooperation with other agencies and with the public
	Problems:
	• Insufficient resources to enforce policies and regulations on a regular basis, and
	to complete effective review of CEQA documents for projects that may generate toxins
	Other Comments:
	• Improve its outreach to the general public to improve understanding and
	acceptance of their role in protecting the Bay and its beneficial uses.
	• DFG has strong enforceable policies to protect fish and wildlife from activities
	that could potentially increase heavy metal/toxin levels in the watershed.
DPR	• Implements programs that relate to the permitting, regulation, monitoring, and sampling of pesticides and pesticide use
ACOE	Successful Aspects:
ļ	Clear goals, responsibilities and procedures
	Support through statutory authority
	Problems:
•	• Insufficient resources
	Other Comments:
	• Coordination/cooperation with other agencies and organizations and support of
1	the public both vary with the specific project being reviewed or permitted. • Program improvements could include implementation of watershed management
1	plans, special area management plans, mitigation banks, in-lieu fee agreements,
	better communication and coordination and development of regional general permits.
USCG	• Works as the federal partner to OSPR to prevent and respond to oil and
	hazardous material spills on vessels and waterfront facilities

USEPA	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complementary programs
	Support through statutory authority
	Problems:
	• Difficulties in coordinating/cooperating internally and with other agencies
	• Insufficient resources
	Other Comments:
	Increase public outreach
TMDL	Successful Aspects:
	Support through statutory authority
	Supports environmental and watershed interests
	Problems:
	Unclear responsibilities and procedures
	Competes/conflicts with existing programs
	Difficulties in coordinating/cooperating with other agencies
	• Insufficient resources
	Other Comments:
	General public not informed about TMDLs This public not informed about TMDLs This public not informed about TMDLs
	• This program is the closest existing model for a statutory basis for watershed
1	planning management
	Suggestions:
	• Local education and outreach from Regional Board to public stakeholder groups, increased funding through State legislature
	• Education, buy-in and leadership from State agency management to implement
	this process required by the CWA
L	this process required by the CWA

TABLE 4.4C
State/Federal Resource Management Program Effectiveness
ssing Heavy Metals/Toxins in the Morro Bay Watershed

.•	Addressing Heavy Metals/Toxins in the Morro Bay Watershed
Agency Functions/ Specific Program	Effectiveness Analysis
SWRCB	Successful Aspects: Complementary programs Support through statutory authority Problems: Unclear goals, responsibilities and procedures Difficulties in coordinating and cooperating internally amongst programs and with other agencies Insufficient resources Lack of support from management. Other Comments: Implementation of the State's CNPCP is in development and cannot be evaluated at this time. However, the SWRCB and CCC anticipate implementing the 15-and 5-year strategies in part through interagency taskforces to guide and coordinate the polluted-runoff-management efforts of State, local and federal agencies in California. The SWRCB and CCC staffs are currently working to identify a process by which other agencies, stakeholder groups, and other members of the public can review and comment on the Management Measures Review document and the 15- and 5-year Implementation Strategies.
RWQCB	 Successful Aspects: Clear goals, responsibilities and procedures Complement other programs Good coordination/cooperation with other organizations Support through statutory authority Support of the public Problems: Insufficient resources Not comprehensive; gaps exist in locations and frequency of monitoring and in compatibility of data generated by the various efforts. Other Comments: Heavy metals and other toxins are commonly associated with urban runoff. Municipal urban runoff may be a source of metals to the Estuary that could be addressed more directly by NPS management measures.
CCC	See SWRCB discussion on the CNPCP
SLC	• Implements program to remove structures which may be hazardous to public health and safety, provides input to the State Oil Spill Contingency Plan
DFG	• Conducts the State Mussel Watch Program and investigates levels of toxins in fish collected from the Morro Bay watershed as part of the Toxic Substances Monitoring Program
DHS	• Fulfills terms of MOU with DPR to share information on monitoring results that are positive for pesticide residues and participates on Pesticide Regulation and Evaluation Committee of DPR

USFWS	Successful Aspects: • Clear goals, responsibilities and procedures • Complementary programs • Good coordination/cooperation internally and with other agencies • Support through statutory authority
ACOE	Successful Aspects: Clear goals, responsibilities and procedures Support through statutory authority Problems: Difficulties in coordinating/cooperating with other agencies and organizations Support of the public
USEPA	Successful Aspects: Clear goals, responsibilities and procedures Complementary programs Support through statutory authority Problems: Difficulties in coordinating/cooperating internally and with other agencies Insufficient resources Other Comments: Increase public outreach

TABLE 4.4D
State/Federal Finance Mechanism Effectiveness
Addressing Heavy Metals/Toxins in the Morro Bay Watershed

	Addressing Heavy Metals/Toxins in the Morro Bay Watershed
Agency	Effectiveness Analysis
Functions/	
<u>Specific</u>	
<u>Program</u>	
SWRCB	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complementary programs
ĺ	Support through statutory authority
	Problems:
	Difficulties in coordinating internally and with other organizations
	Duplication of spending
Į.	Other Comments:
	• The CWA Grant program is well-coordinated with other state and local agencies
	but suffers from insufficient funds.
	• The State Revolving Fund program exhibits difficulties in coordinating and
	cooperating with other organizations but has sufficient resources to be effective.
	• The Underground Storage Tank Cleanup Fund is well-coordinated with other
ĺ	state and local agencies and has sufficient resources.
	• The Clean Water Act Grant Fund activities would be more effective if the
	process of making these federal funds available to local agencies and
]	organizations could be expedited.
	• Effectiveness could be improved with more public outreach to build awareness of
	these funding programs and understanding of their application.
RWQCBs	Successful Aspects:
	Clear goals, responsibilities and procedures
i	Complementary programs
	Good coordination with other organizations
1	Uniqueness of the program
	Support through statutory authority
1	• Support of the public
.	Other Comments: More affective if the precess of making these federal funds available to lead
1	• More effective if the process of making these federal funds available to local
	 agencies and organizations could be expedited Effectiveness could be improved with more public outreach to build awareness of
	these funding programs and understanding of their application.
DDW	
DBW DFG	Administers the Pumpout Grant Program Implements chill provention programs through the Oil Shill Provention and
Dr.G	• Implements spill prevention programs through the Oil Spill Prevention and Administrative Fund
DPR	
DTSC	• Finance mechanism has not been used in the Morro Bay watershed
אזמר	Finance mechanism has not been used in the Morro Bay watershed

USEPA Successful Aspects:

- Clear goals
- Complementary programs
- Good coordination/cooperation with other organizations
- Uniqueness of the programs
- Support of the public

Problems:

- Insufficient resources
- · Lack of statutory authority

Other Comments:

- To increase program effectiveness, information on available grants should be more accessible to the public, and the grant process should be expedited through automation.
- Many of these finance mechanisms have not been used or considered in the Morro Bay watershed.

TABLE 4.4E
Other State/Federal Non-Regulatory Programs Effectiveness
Addressing Heavy Metals/Toxins in the Morro Bay Watershed

Agonori	Addressing freavy Metals/Toxins in the Morro Day Watershed
Agency	Effectiveness Analysis
Functions/	
'Specific	
Program 1997	
RWQCBs	Successful Aspects:
Volunteer	Clear goals, responsibilities and procedures
Monitoring	• Complements the activities of the NEP, National Monitoring Program, and the
	Shellfish Technical Advisory Committee
	Good coordination/cooperation with other organizations
	Uniqueness of the program
	Support of the public
	Problems:
	Insufficient resources
· .	Other Comments:
	Not comprehensive
	• The program could be improved by increasing funds to support a volunteer
	coordinator, equipment purchases, data analysis, and lab costs.
	Successful Aspects:
Study	Clear goals, responsibilities and procedures
	Complements other programs
	Good coordination with other organizations
	Uniqueness of program
	• Support of the public
]	Problems:
	Limited resources resulted in limited scope and duration
CCC	• Implements Boating Clean and Green Campaign, education/technical assistance
	program that addresses sources of heavy metals and or other toxins
DFG, OSPR	• Uses volunteer workers in response, containment, and restoration efforts for oil
	spills in marine water and funds research.
DHS	Conducts epidemiological investigations for disease due to pesticide poisoning
DPR	Promotes educational programs and sharing of monitoring information
USEPA	• In coordination with NOAA, provides management guidance to "Critical Coastal
	Areas" (those adjacent to impaired or threatened coastal waters) through its
	Coastal Nonpoint Pollution Control Program
USCG	• Implements Sea Partners Campaign, an educational outreach program which
	focuses on developing awareness of maritime pollution and compliance with
	environmental protection laws

4.5 EFFECTIVNESS ANALYSIS: PROGRAMS ADDRESSING FRESH WATER FLOW

TABLE 4.5A
Local Program Effectiveness
Addressing Fresh Water Flow in Morro Bay Watershed

	Effectiveness Analysis.
	• There are too few planning staff to ensure that fresh water issues are adequately
Morro Bay	addressed at CEQA level.
	• There are too few planning staff to adequately enforce GP/LCP policies and zoning ordinances related to fresh water flow issues.
	• City agencies coordinate well with each other through regular meetings. The city also coordinates well with Coastal Commission.
	 The City of Morro Bay's LCP has not been updated to incorporate all amendments that have been made since 1983. It should be recommended that funding and staff be made available to proceed with a complete update and provide a final document, which includes all amendments.
	• Some County agencies do not coordinate as effectively as they could with other
San Luis Obispo	agencies, such as the CCC.

State/re	deral K	eguiato	ry Pr	ogr	am Ell	ective	eness
Addressing	Fresh	Water	Flow	in	Morro	Bay	Watershed

Agency :	Effectiveness Analysis
Functions/	
Specific	A Company of the Comp
Program	
SWRCB	Successful Aspects:
BWRCD	Clear goals and responsibilities
	Complementary programs
	Support through statutory authority
	Support of the public
	Problems:
	• Difficulties in coordinating/cooperating amongst the programs themselves, as
	well as with other organizations
·	Insufficient resources
RWQCB	Successful Aspects:
(, =	Clear goals, responsibilities and procedures
	Complementary programs
	Support through statutory authority
	Problems:
	• Difficulties in coordinating/cooperating with other organizations and with
,	dischargers
	Other Comments:
	• The RWQCB does not have enough staff to inspect and ensure compliance with
	the NPDES Storm Water Discharge General Permit for Construction Activity.
	Suggestions:
	• More outreach to, and coordination with, local government agencies by regional
	board staff
·	Informational brochures to improve public support
	• Increased reliance on the NPDES Storm Water Discharge General Permit for
	Construction Activity as an effective tool to support local inspection efforts to
	make sure control of runoff during construction is appropriate and consistent with
	local and state permits.
CCC	Successful Aspects:
	• Good coordination/cooperation with local government staffs on LCP-related
	issues, and with other state and federal agencies in ensuring that issues related to
	grading and vegetation removal are addressed properly
	Problems: • Insufficient resources
	Suggestions:
	• More outreach to local government agencies by CCC staff, including facilitating
	the implementation of regional watershed conservation measures and urban
	runoff programs that are consistent with the CNPCP as well as CWA Section 319
	• Use permitting models such as the one NRCS uses in Elkhorn Slough where
	landowners go through NRCS, instead of four or more agencies, to obtain
	necessary approvals for implementation of conservation measures.
DFG	• Implements several regulatory mandates that address fresh water flow issues.
<u> </u>	The state of the s

TABLE 4.5C State/Federal Resource Management Program Effectiveness Addressing Fresh Water Flow in Morro Bay Watershed

Agonov	Addressing Fresh Water Flow in Morro Bay Watershed Effectiveness Analysis
Agency Functions/	Effectiveness Analysis
Specific	
Program	
	I Conserved Amendo
SWRCB/	Successful Aspects:
RWQCB	Complementary programs
	Support through statutory authority
	Problems:
	Unclear goals, responsibilities and procedures
	• Difficulties in coordinating/cooperating internally amongst programs and with
1	other agencies
	• Insufficient resources
\	Lack of support from management
NPS	Successful Aspects:
	• Clear goals and responsibilities
	• Good coordination with other internal activities such as the Watershed
	Management Initiative and with other organizations regarding NPS management
	issues
	Support through statutory authority
	Problems:
	Unclear procedures to meet the goals
	Insufficient resources
	• Lack of public support
	Other Comments:
	• The public does not generally understand State authority to regulate NPS
	pollution, nor fully understands that many acceptable land use activities
	contribute to this type of pollution.
	Suggestions: Develop incentives to implement NBS control measures such as streemlined
	• Develop incentives to implement NPS control measures such as streamlined permitting, financial and technical assistance to local agencies, increasing
	outreach to agriculture interest groups.
	• The State's NPS program would benefit from an upgrade, while the CNPCP is
	still in development.
SCC	Successful Aspects:
Sec	• Clear goals
	Complementary programs
	Good coordination/cooperation with other agencies and is actively involved with
	the Morro Bay Task Force and multi-agency steering committees
	Support by the public and the Morro Bay Task Force
1	Problems:
	• Insufficient resources
Ì	Other Comments:
1	• The SCC has been exemplary in implementing resource management projects in
	the Morro Bay watershed. Its coordination with both government agencies and
	with public should be set as a model for future projects throughout the watershed.
DWR	Administers and implements several resource management programs
DWK	Administers and implements several resource management programs

NRCS Successful Aspects: • Clear goals	
• Clear goals	
Complementary programs	
Good coordination/cooperation with other organizations	
• Support from the public; this has allowed NRCS staff to integra	ate their efforts
and participate in development of the CCMP.	
Problems:	
Insufficient resources	
Other Comments:	
• Program effectiveness could be improved with additional funds to	noth to provide
directly to landowners for installation of conservation practices	and to support
continuation of NRCS staff efforts at public education and technical	al accietance
This program would also benefit by having access to geomorphology.	ar assistance.
advise on restoration needs for Los Osos Creek.	bgy experiese to
NRCS would like to facilitate and promotes permit-streamlining et	fforts lossily in
order to remove permitting hurdles, which currently create a dising	
landowners for implementing conservation practices. Permit-stre	
projects, currently being conducted in the Elkhorn Slough	
initiated in the Salinas River Watershed, may be appropriate to	transfer to the
Morro Bay watershed.	
USEPA Successful Aspects:	
• Clear goals	
• Complementing other programs	
Good coordination/cooperation with other organizations Linique and a fine group	
Uniqueness of program Support of the multiple	
• Support of the public	
Problems: Insufficient resources	
Other Comments:	maa ta imaluda
• This program would benefit from improving the USEPA guida	
assistance with clarifying roles and responsibilities, managing	multiple fund
sources and understanding agency liability.	
NPS/ Successful Aspects:	
CZARA • Clear goals, responsibilities and procedures	
Complementary programs	
Good coordination/ cooperation with other organizations	
Support through statutory authority	
• Support of the public	
Problems:	4 AMPEG
• Difficulties in coordinating with other USEPA programs (such	as the NPDES
Program and TMDL Program)	
Insufficient resources	
Other Comments:	
More efforts like the Clean Water Action Plan which pror	
collaboration and integrated approaches among all levels of gov	ernment would
be helpful to this program.	
• Revision of the 319 funding allocation formula to provide	more funds to
California	

TABLE 4.5D
State/Federal Finance Mechanism Effectiveness
Addressing Fresh Water Flow in Morro Bay Watershed

	Addressing Fresh Water Flow in Morro Bay Watersned
Agency	Effectiveness Analysis
Functions/	
Specific .	
Program ·	
SWRCB	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complementary programs
	Support through statutory authority
	Good coordination with other state and local agencies
i	Problems:
	Insufficient funds
	Difficulties in coordinating internally and with other organizations
•	Duplication of spending
	Other Comments:
	• The Clean Water Act Grant Fund activities would be more effective by
	expediting the process of making the federal funds available to local agencies and
	organizations.
	• The State Revolving Fund program exhibits difficulties in coordinating and
	cooperating with other organizations but has sufficient resources to be effective.
RWQCBs	Successful Aspects:
	Clear goals, responsibilities and procedures
	Complement other programs
	Good coordination with other organizations
	Uniqueness of the program
	Support through statutory authority
~~~	Support of the public
SCC	Successful Aspects:
	• Clear goals
	Complementary with other programs and priorities
	• Good coordination/cooperation with other agencies and is actively involved with
1 .	the Morro Bay task Force and multi-agency steering committees
	Support by the public and the Morro Bay Task
	Problems:
TICEDA	• Insufficient resources
USEPA	Successful Aspects:
Ì	• Clear goals
	• Complementary programs • Good coordination/goodparation with other organizations
	Good coordination/cooperation with other organizations     Uniqueness of the program
	<ul> <li>Uniqueness of the program</li> <li>Support of the public</li> </ul>
	Other Comments:
	• The Clean Water Act § 319 funding to California is limited. The amount of these
	funds is expected to increase through the President's Clean Water Action Plan.
	• This program could be improved by making information on available grants and
	the process and requirements to receive the grant funds more accessible to the
	public.
	• The grant process would be better if it were automated and expedited.
L	1 - The grain process would be better if it were automated and expedited.

TABLE 4.5E
Other State/Federal Non-Regulatory Programs Effectiveness
Addressing Fresh Water Flow in Morro Bay Watershed

A constitution	Effectiveness Analysis
Agency	Effectiveness Analysis
Functions/	
Specific Program	
CA Nat'l	• Is developing an Integrated Natural Resources Management Plan to identify
Guard/Camp	the status of existing natural resources
SLO	
	Successful Aspects:
Extension	Complementary programs
	• Good coordination/cooperation with other organizations and internal programs
}	Support from the public
	Problems:
	Insufficient resources
	Other Comments:
	• Program effectiveness could be improved with greater outreach to the public
<u></u>	so that more landowners could be taking advantage of the program
NRCS	Successful Aspects:
MCS	Complementary programs
ĺ , , ,	• Good coordination/cooperation with other organizations and internal programs
	• Support from the public
	Problems:
	• Insufficient resources
	Other Comments:
	• Program effectiveness could be improved with additional funds so that more
	landowners could receive education and assistance with conservation
	techniques
j	• NRCS, via the Wetlands Reserve Program, secures easements and restoration
	cost-share agreements with landowners for wetlands. Areas of farmed wetlands
l	and formerly converted cropland are the principal wetland types placed into the
]	program by landowners. All lands accepted into the program are maintained
	according to a wetland restoration plan. This program has been used twice in
İ	the Morro Bay watershed- for the Chorro Flats Enhancement Project and the
	Los Osos Creek Wetland Reserve
USEPA	Successful Aspects:
USELA	Clear goals, responsibilities and procedures
<b>.</b>	Complementary programs
	Problems:
	• Difficulties in coordinating with other USEPA programs (such as the NEP,
1	NPDES Program and TMDL Program) Other Comments:
1	
ł	Better outreach and coordination with local agencies in the critical coastal
L	areas

#### 4.6 EFFECTIVENESS ANALYSIS: PROGRAMS ADDRESSING HABITAT LOSS

### TABLE 4.6A Local Program Effectiveness Addressing Habitat Loss in Morro Bay Watershed

Agency	Effectiveness Analysis
City of Morro Bay	• Too few planning staff to ensure that habitat issues are adequately addressed at CEQA level
Will Day	<ul> <li>Policies/programs/ordinances generally effective. City currently administers ESHA and other habitat policies well. (At present, there is not a whole lot of activity that City gets involved in that has a direct effect on habitat. Moratorium on septic systems imposed by Regional Water Quality Control Board has limited new development within City borders). However, too few planning staff to adequately enforce GP/LCP policies and zoning ordinances.</li> <li>The City's LCP has not been updated in over 15 years; amendments are placed in document at front of LCP as "LUP Errata". Only the General Plan incorporates</li> </ul>
	new LCP amendments to date.  • City agencies coordinate very well with each other through regular meetings. City also coordinates well with Coastal Commission.
County of San Luis Obispo	<ul> <li>Policies/programs appear to be inconsistently applied in areas that are mapped as an ESHA, but not always consistent. One notable problem is if an area is not mapped as an ESHA, protective policies may not apply.</li> <li>Mapped ESHAs are based on the NWI which is not ground-truthed nor is it 100% complete as it is based solely on aerial photos.</li> </ul>
	<ul> <li>The county does not have a map in the General Plan/LCP to identify the habitat areas of endangered/threatened species, such as the Morro Bay Kangaroo Rat. The Estero Plan does recommend that DFG identify these areas which would then be incorporated into the land use plan.</li> <li>Implementation of policies is not always consistent with GP/LCP.</li> <li>County agencies coordinate with other agencies, such as CCC</li> </ul>

TABLE 4.6B
State/Federal Regulatory Program Effectiveness
Addressing Habitat Loss in Morro Bay Watershed

	Addressing Habitat Loss in Morro Bay Watershed
Agency	Effectiveness · Analysis
Functions/	
Specific.	
<u>Program</u>	
SWRCB	Successful Aspects:
	Clear goals and responsibilities
	Complementary programs
	Support through statutory authority
	• Support of the public
	Problems:
	• Difficulties in coordinating/cooperating amongst the programs themselves, as
	well as with other organizations
	• Insufficient resources
RWQCB	Successful Aspects:
112.02	Clear goals, responsibilities and procedures
	Complementary programs
	Support through statutory authority
]	Problems:
	• Difficulties in coordinating/cooperating with other organizations and with
CWA_401	dischargers
2111111	Problems:
	• Inconsistent procedures
	• Difficulties in coordinating with other agencies,
	• Insufficient resources
	• Lack of support and understanding of local government agency representatives or
	project proponents
	Other Comments:
	• The CWA 401 certification process provides the RWQCB with a tool to ensure
	projects include measures to protect water quality.
	• The RWQCB has insufficient resources to provide thorough review and comment
	on CEQA documents.
	Suggestions:
	<ul> <li>More outreach to and coordination with local government agencies by regional</li> </ul>
	board staff
	<ul> <li>Informational brochures to improve public support and understanding</li> </ul>
	• Increased reliance on the CWA 401 water quality certification process and
	CEQA document review to prevent habitat loss
CCC	• California Coastal Act of 1976 provides for several policies to protect, preserve,
	enhance and restore habitat.
DFG	• The Endangered Species Unit coordinates State agency consultation and issuance
	of take permits and management authorizations; issues Lake/Streambed
<u> </u>	Alteration Agreements; participates in CEQA either as a Lead or as a
	Responsible Agency

ACOE	Successful Aspects:
	Clear goals, responsibilities and procedures
	Support through statutory authority
	Problems:
	• Duplicate efforts of other agencies such as those of DFG and the RWQCB
	Insufficient resources
	Other Comments:
	• Coordination/cooperation with other agencies and organizations and support of the public both vary with the specific project being reviewed or permitted.
	Suggestions:
	• Implementation of watershed management plans, special area management plans,
	mitigation banks, in-lieu fee agreements, better communication and coordination and development of regional general permits
USFWS	Successful Aspects:
<b>]</b>	Clear goals, responsibilities and procedures
	Complementary programs
	Good coordination with other organizations
	Support through statutory authority
	Problems:
	Insufficient resources
	Have special-interest (rather than general public) support
	Suggestions:
	• Initiating area-wide habitat conservation planning to address all activities that
·	impact endangered species in a large area
	Increase habitat protection efforts and areas     Increase outrooch to public to improve understanding of agency roles.
	Increase outreach to public to improve understanding of agency roles

TABLE 4.6C
State/Federal Resource Management Program Effectiveness
Addressing Habitat Loss in Morro Bay Watershed

Agency	Effectiveness Analysis
Functions/	
Specific	
Program	
SWRCB/	Successful Aspects:
RWOCB	Complementary programs
I W Q C D	Support through statutory authority
	Problems:
	Unclear goals, responsibilities and procedures
	Difficulties in coordinating/cooperating internally amongst programs and with
	other agencies
	Insufficient resources
	Lack of support from management
NPS	Successful Aspects:
	Clear goals and responsibilities
	• Good coordination with other internal activities such as the Watershed
	Management Initiative
	• Good coordination with other organizations regarding nonpoint source
	management issues
	Support through statutory authority
	Problems:
	Unclear procedures to meet the goals
	Insufficient resources
	Lack of public support
	Other Comments:
	• The public does not generally understand State authority to regulate nonpoint
	source pollution, nor fully understands that many acceptable land use activities
	contribute to this type of pollution
*	Suggestions:
)	• Develop incentives to implement nonpoint source control measures such as
ł	streamlined permitting, financial and technical assistance to local agencies,
]	increasing outreach to agriculture interest groups  The State's NIPS program would benefit from an ungrade, while the CNIPCP is
	• The State's NPS program would benefit from an upgrade, while the CNPCP is still in development
DFG	Investigates areas to determine their suitability for wildlife production and
Dru	preservation, authorizes and provides funding for land acquisition,
	development, and restoration projects, and manages Wildlife Areas, Ecological
1	Reserves and other public lands throughout the state
	10001 ves and other public lands unoughout the state

SCC	Successful Aspects:
SCC	• Clear goals
	Complementary programs
	Good coordination with both government agencies and with public
	Good coordination with both government agencies and with public
	• Good coordination/cooperation with other agencies and is actively involved with
	the Morro Bay Task Force and multi-agency steering committees
	Support by the public and the Morro Bay Task
	Problems:
	Insufficient resources
	Other Comments:
	• The SCC has been exemplary in implementing resource management projects in
	the Morro Bay Watershed.
NRCS	Successful Aspects:
	Clear program goals
	Complementary programs
	Good coordination/cooperation with other organizations
	Support from the public
	Other Comments:
	• The Hydrologic Unit Area Project has been one of NRCS's most effective
	programs in the Morro Bay Watershed.
	• Program effectiveness could be improved with additional funds both to provide
	directly to landowners for installation of conservation practices and to support
	continuation of NRCS staff efforts at public education and technical assistance.
	• This program would also benefit by having access to geomorphology expertise to
	advise on restoration needs for Los Osos Creek.
	• Has allowed NRCS staff to integrate their efforts and participate in development
	of the CCMP
	• NRCS would like to facilitate and promotes permit-streamlining efforts locally in
	order to remove permitting hurdles, which currently create a disincentive to local
	landowners for implementing conservation practices. Permit-streamlining pilot
	projects, currently being conducted in the Elkhorn Slough Watershed and
	initiated in the Salinas River Watershed, may be appropriate to transfer to the
	Morro Bay Watershed.
	Trotto Day "Tutoblied.

be helpful to this program.

#### USEPA Successful Aspects: • Clear goals • Complementary programs • Good coordination/cooperation with other organizations • Uniqueness of the program Support of the public Problems: • Insufficient resources Other Comments: • Program would benefit from improving the USEPA guidance to include assistance with clarifying roles and responsibilities, managing multiple fund sources and understanding agency liability. NPS/ Successful Aspects: • Clear goals, responsibilities and procedures CZARA Complementary programs • Good coordination/cooperation with other organizations • Support through statutory authority • Support of the public Problems: • Lack of coordination with other USEPA programs (such as the NPDES Program and TMDL Program) • Insufficient resources Other Comments: This program could be improved by better coordination amongst internal programs and revision of the 319 funding allocation formula to provide more funds to California.

• More efforts like the Clean Water Action Plan which promote increased collaboration and integrated approaches among all levels of government would

TABLE 4.6D
State/Federal Finance Mechanism Effectiveness
Addressing Habitat Loss in Morro Bay Watershed

	Addressing Habitat Loss in Morro Bay Watershed
Agency Functions/. Specific Program	Effectiveness Analysis
SWRCB	Successful Aspects:  • Clear goals, responsibilities and procedures
-	<ul> <li>Complementary programs</li> <li>Good coordination with other state and local agencies</li> <li>Support through statutory authority</li> </ul>
	Problems:  Insufficient funds
	Other Comments:  • The State Revolving Fund program exhibits difficulties in coordinating and cooperating with other organizations but has sufficient resources to be effective.  • These finance mechanisms would be more effective if coordination internally and with other organizations were improved to clarify funding priorities within
	watersheds. This would avoid duplication of spending. The Clean Water Act Grant Fund activities would be more effective by expediting the process of making the federal funds available to local agencies and organizations.
RWQCB	Successful Aspects:  Clear goals, responsibilities and procedures  Complementary programs
	<ul> <li>Good coordination with other organizations</li> <li>Uniqueness of the program</li> <li>Support through statutory authority</li> <li>Support of the public</li> </ul>
DFG	• Administers funds for the acquisition, enhancement, restoration, or protection, of habitats
SCC	Successful Aspects:  Clear goals and procedures  Complementary programs  Good coordination/cooperation with other agencies  Support of the public  Problems:  Insufficient resources
NRCS	Successful Aspects:  Clear goals Complementary programs Good coordination/cooperation with other organizations Uniqueness of the program Support through statutory authority Support of the public Problems: Insufficient resources

USEPA	Successful Aspects:  Clear goals  Complementary programs  Good coordination/cooperation with other organizations  Uniqueness of the program  Support of the public
	Other Comments:  • The Clean Water Act § 319 funding to California is the most accessible funding source available for local projects but it is limited. The amount of these funds are expected to increase through the President's Clean Water Action Plan. This program could be improved by making information on available grants and the process and requirements to receive the grant funds more accessible to the public. Additionally, the grant process would be better if it were automated and expedited.
USFWS	Successful Aspects:  Clear goals  Complement other programs  Good coordination/ cooperation with other organizations  Other Comments:  They are not being fully utilized in the watershed

# TABLE 4.6E Other State/Federal Non-Regulatory Programs Effectiveness Addressing Habitat Loss in Morro Bay Watershed

Agency	Effectiveness Analysis
Functions/	
Specific .	
<u>Program</u>	
CCC	• Conservation Education Program provides materials to the public related to the
	protection and enhancement of the coastal and marine environment
DFG	Implements educational programs

#### 5.0 RECOMMENDED ACTIONS

This final section presents specific actions to improve effectiveness of the institutional framework based on the results of the effectiveness analysis. Analysis of how the existing institutional framework address the priority problems in the Morro Bay watershed reveal that although agencies at all levels of government are implementing exemplary programs, improvements in the institutional framework can be made. These actions address specific problems of a particular program or programs implemented by one or several agencies.

Specific actions to improve the institutional framework are presented in Table 5.1. As shown in Table 5-1, recommended actions are correlated with both the priority problems of the Morro Bay Watershed and with the Nonpoint Source (NPS) management measure categories identified in California's Management Measure Review Document (State Water Resources Control Board and California Coastal Commission, 1998).¹ Table 5.2 shows the management measure categories (numbered and bold headings) and management measures (letters). This categorization provides a useful method to organize and list actions recommended to improve the institutional framework for the Morro Bay National Estuary. Simultaneously, this approach tests the ability of the National Estuary Program requirements of this Base Programs Analysis to be consistent with the State's NPS Management strategy. Finally, this approach tests the applicability of watershed management pursuant to the 1998 Federal Clean Water Action Plan and the State's Watershed Management to recommended actions deemed necessary to protect the Morro Bay Watershed and Estuary. The integration and coordination of local programs and needs with State and federal programs should result in more technical and financial support to implement the recommended actions. This approach should also facilitate greater approval and acceptance of actions presented in the CCMP.

As determined, few new programs are necessary to improve the institutional framework. The analysis indicates that existing programs should focus on increasing financial resources, improving interagency coordination and improving public outreach.

Therefore, the recommended actions to improve effectiveness of state and federal agency programs include actions to:

- capitalize on existing state and federal finance mechanisms to provide more financial resources to local agencies and landowners;
- improve interagency coordination;
- increase public education and outreach:
- implement more comprehensive approaches for developing strategies to address priority problems:
- provide incentives for implementation of nonpoint source pollution control;
- and expand existing monitoring activities.

¹ The Management Measure Review Document is a part of the ongoing parallel efforts to upgrade the State's 1988 Nonpoint Source Management Plan and to implement the Coastal Nonpoint Pollution Control Program. Management Measure categories (i.e., agriculture, forestry, urban, marinas & recreational boating, hydromodification, and wetlands) and Management Measures are listed in Table 5-1.

Table 5.1 Recommended Actions to improve the institutional Framework

				Pr	iority	Prob	lems			NI	S MM	1 Cate	gorie	s
Actions			Rapid Sedimentation	Bacteria	Nutrients	Heavy Meta/ Other Toxins	Reduced Fresh Water Flow	Habitat Loss	Agriculture	Forestry	Urban	Marinas	Hydromodi- fication	Wetlands
<ol> <li>Create a permanent watershed common coordination among agencies and be and the public (as appropriate, use former committee such as the Committee or Morro Bay Taskforesponsibilities of this committee inche.</li> <li>Maintain/establish partnerships approaches;</li> <li>Consider CCMP actions in term related actions and determine links priorities;</li> <li>Assess cumulative impacts to the wearing issue assessment, build management);</li> <li>Provide regular updates to other agmakers, and the public on proportial programs listed in the Institution potential programs) that address printer watershed;</li> <li>Meet quarterly.</li> </ol>	etween agencies e an existing or NEP Watershed orce). Types of ude: and shared as of groups of ages and relevant atershed; anning (including out, and growth gencies, decisionogram activities al Inventory and ority problems in	Other agencies												
2. Develop a strategy to improve coordinactions/activities that address priority watershed. Key programs include City/County permitting decisions Plan/LCP updates; RWQCB Basin P Management Initiative (WMI); State Pollution Control Program (CNPCP Water Action Plan (CWAP).	r problems in the E: NEP CCMP; and General Plan & Watershed Coastal Nonpoint	• Other agencies												

Recommended Actions to Improve the Institutional Framework (continued) Table 5.1

	Wet					
ries	Hyd					
atego	Mar					
NPS MM Categories	Urb		>		>	<b>,</b>
NPS	For	·				
	Ag					
	Hab	<b>&gt;</b>	<b>&gt;</b>	•	>	>
E E	Red Flw	>	>	>		
Priority Problem	HIM /T	>	>	>		
iority	Nat	<b>&gt;</b>	>	>		
占	Вас	<b>&gt;</b>	·	<i>/</i>		
	Rap	<b>`</b>	<b>&gt;</b>	<u> </u>		·
	Implementing Agencies	• CMB • SLO Co. • CCC	• CMB • SLO Co. • CCC	• CMB • SLO Co. • RWQCB • CCC	• SLO Co.	• SLO Co.
	Actions	3. Update existing planning documents such as: local government General Plans, Coastal Land Use Plans (e.g., the Estero Area Plan), Ordinances, maps, etc. Types of "updates" include 3.1 through 3.5.  3.1 Adopt "model" LCP policies and ordinances that incorporate CNPCP management measures and effective Best Management Practices (BMPs) to address priority problems such as polluted runoff (specifically where policies or ordinances are lacking or do not effectively address the priority problems).	3.2 Develop and adopt a "Priority Problem Element" section for inclusion in the General Plans/LCPs (e.g., an appendix that lists individual policies and ordinances that address priority problems). This "Element" would direct planners and others to the GP/LCP policies, programs, and ordinances that address each priority problem in the watershed.	3.3 Develop a process to coordinate updates of General Plans/LCPs with updates of/revisions to the RWQCB Basin Plan	3.4 Prepare a new Environmentally Sensitive Habitat Area (ESHA) map that is both based on the USFWS National Wetland Inventory and is verified by field surveys.	3.5 Develop and approve a policy for the SLO Co. LCP that allows the County to treat identified but unmapped sensitive habitat areas as ESHAs.

									NPS MM Categories						
	Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Âg	For	Urb	Mar	Hyd	Wet	
4.	agency staffs and their respective decision-making bodies, so that permitting and planning decisions (a) take into account how the decision may affect the priority problems in the Morro Bay watershed and (b) are based on up-to-date information.	<ul><li>SLO Co.</li><li>RWQCB</li><li>SWRCB</li><li>CCC</li><li>others</li></ul>	1	1	1	1	1	7							
5.	Adopt and use a revised Environmental Checklist (i.e., one that thoroughly evaluates natural resources and priority problems) when conducting a CEQA Initial Study of projects in the Morro Bay watershed	• SLO Co.	<b>\</b>	7	7	1	1				•				
6.	proposed in sensitive areas and in areas identified as potential sources of priority problems.	<ul><li>CCC</li><li>DFG</li><li>Other agencies</li></ul>	•	1	1	1	1	1			✓			,	
7.	Co-locate offices or desk space for agencies with offices outside the watershed to facilitate their meeting their estuary management responsibilities	• E.g., CCC with RWQCB • NEP	<b>√</b>	•	<b>▼</b>		1								
8.	Develop, and require as necessary, standard permit conditions to prevent impacts to watershed resources.	<ul><li>CMB</li><li>SLO Co.</li><li>CCC</li></ul>	•	1	•	•	1			,	1				

Recommended Actions to Improve the Institutional Framework (continued) Table 5.1

	ts 7				
	Wet				
gories	Hyd				
Categ	Mar				
NPS MM Categories	For Urb Mar Hyd	•		<b>&gt;</b>	>
NPS	For				
	Ag				
	Hab	<b>&gt;</b>		1	<b>&gt;</b> .
됥	Red	<b>&gt;</b>		>	`
Priority Problem	HM /T	<b>,</b>		>	·
ority	Nut	<b>&gt;</b>		>	
E	Bac	>		•	
	Rap	>		<b>&gt;</b> .	
	Implementing Agencies	RWQCB CCC CMB SLO Co.	•	NEP RWQCB CMB SLO Co. CCC DFG	• NEP/EPA • CCC • CMB • SLO Co.
	Actions	<ul> <li>9. Develop guidance for the preparation and staff review of project-specific plans (e.g., stormwater pollution prevention plans, erosion-control plans, landscaping plans, and nutrient management plans), specifically: <ul> <li>Guidance for landowners/project proponents to prepare plans pursuant to permit applications;</li> <li>Guidance for staff to assist in the proper review of submitted plans;</li> <li>Require and/or encourage the use of such plans.</li> </ul> </li> </ul>	10. Improve post-development monitoring, assessment, BMP maintenance, and enforcement. Examples of efforts include 11.1 through 11.5.	vater quality-monitoring plan (including the expansion of the volunteer monitoring program if feasible) and coordinate this plan with existing monitoring and assessment efforts for water quality instream flows and wetland and riparian habitat.	use of, and provide where feasible, tools such as digitized aerial photographs, mapping technology, and/or Geographic Information Systems (GISs). Training should include the ability to: (a) locate proposed project sites (by latitude-longitude or parcel) relative to watershed boundaries and critical areas; and (b) identify and track changes in land use/land cover and water quality resulting from development activities.

Recommended Actions to Improve the Institutional Framework (continued)

work (continued)	Priority Problem NPS MM Categories	Bac Nut HM Red Hab Sor Urb Mar Hyd Wet			
Frame		Rap Sed	>	>	>
nstitutional ]	·	Implementing Agencies	• CMB • SLO Co. • RWQCB • CCC	• CMB • SLO Co. • RWQCB • CCC	• NEP • CMB • SLO Co. • RWQCB • SWRCB • CCC • ACOE • NRCS • USEPA • Others
Table 5.1 Recommended Actions to Improve the Institutional Framework (continued)		Actions	10.3 Track effectiveness of management practices implemented by permit conditions and voluntary efforts.	10.4 Increase site visits and inspections in progress	<ul> <li>10.5 Improve staff-level coordination, internally and between departments, with agencies/departments responsible for maintenance, monitoring, and restoration. For example: <ul> <li>Coordination among CMB/SLO Codepartments (e.g., Planning and Building, Public Works) concerning sediment cleanup on roads, maintenance of storm drains, etc.</li> <li>Coordination between local agencies, CCC, and RWQCB on land use/water quality issues.</li> </ul> </li> </ul>

Table 5.1 Recommended Actions to Improve the Institutional Framework (continued)

			Pr	iority	Probl	em		NPS MM Categorie					
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
11. Convene workshops/trainings for local and State agency staffs and decision-makers, landowners, contractors, and others on erosion- and pollutant-control practices, practices to protect natural drainage patterns/stream courses and to maintain instream flows, proper BMP implementation and maintenance techniques, and how to assess these for effectiveness. Options include:  11.1 Hold refresher trainings on an annual basis.  11.2 Schedule runoff-control workshops/trainings prior to the rainy season (September-October) with follow-up assessments at the end of the rainy season (May-June).	<ul> <li>RWQCB</li> <li>Coastal San Luis RCD</li> <li>UC Coop. Extension</li> </ul>		•		•	1							
12. Create institutional arrangements to identify and link grants, loans, cost-share programs, and other funding sources with mandates for water quality and estuarine protection and enhancement (e.g., NEP funds, CWA § 319 funds, State Revolving Fund loans, DBW funds, NRCS EQIP funds, etc.).	RWQCB     Other     agencies	•	•		•	•				•			
13. Identify and seek funding to purchase areas where land acquisition or restoration would provide the best opportunity to address priority problems such as rapid sedimentation and freshwater flow reduction (e.g., steep hillsides, wetlands).	• SLO Co. • SCC	•		•	<b>✓</b>	•	•					•	1

		Priority Problem NPS							S MM	IM Categories				
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet	
14. Increase public awareness related to the Morro Bay watershed and the priority problems in the watershed. Use mailings, meetings, presentations at public forums, the Internet, etc.  14.1 Provide educational materials describing items such as: the priority problems in the watershed, potential sources/causes, how watersheds work (e.g., the link between upstream discharges and Morro Bay), how individual/group actions affect watershed resources and uses, etc.  14.2 Install signs on roads/highways to inform public that they have entered the Morro Bay watershed	• others	•						1	•	•	1	•	•	
15. Consider National Marine Sanctuary (NMS)status for the Morro Bay since the estuary is flanked by other NMSs to the north (Monterey Bay NMS) and south (Channel Islands NMS).	• EPA											·		
16. Develop and use a streamlined permitting process where landowners work with a single agency (e.g., the NRCS) to install practices to control runoff and address the priority problems in the watershed. [For example, in a model program developed in the Elkhorn Slough watershed, the NRCS obtained all necessary approvals for the installation of agricultural runoff control and conservation practices from the RWQCB, CCC (federal consistency), Monterey County (permit waived pursuant to CCC federal consistency) and other agencies.]	P&B Dept. • RWQCB • CCC • DFG • NRCS	•	•	•	•	•	•	•						

Table 5.1 Recommended Actions to Improve the Institutional Framework (continued)

		Priority Problem					·····		NPS	NPS MM Categories								
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	We					
<ul> <li>17. Continue implementation of existing programs that facilitate use of BMPs for grazing management, alternate water supply, livestock access limitation, and vegetative stabilization.</li> <li>17.1 Expand Rangeland Management training courses to include State Management Measures developed pursuant to CWA § 319 and CZARA § 6217</li> <li>17.2 Expand programs to increase the types and locations of practices used.</li> </ul>	Ag. Dept. UC Coop. Ext.	<b>√</b>	•	1	1		•	✓										
18. Initiate a program, or integrate activities into existing programs, for implementation of nutrient management plans on lands with row crops by providing monitoring and assessment, education, and technical and financial assistance to land owners. Consider NRCS programs, Rangeland Water Quality courses, volunteer monitoring or other existing education and outreach efforts as potential programs to integrate nutrient management planning	<ul> <li>SLO Co. Ag. Dept.</li> <li>UC Coop Ext.</li> <li>RWQCB</li> <li>CCC</li> </ul>			•				•										

		Priority Problem					- <b></b> -		NPS	MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	We
<ol> <li>9. Use a combination of practices for irrigation water on row crops to maximize the water use efficiency of the irrigation system, minimize the amount of water that is discharged from the system, and improve the water quality of surface/subsurface return; e.g.,:         <ul> <li>Schedule and manage the application of irrigation water;</li> <li>Minimize to the extent possible irrigation water runoff from all irrigation systems except for surface irrigation, which will be recovered and reused with a tailwater recovery system; and</li> <li>Eliminate unnecessary deep percolation (reduces the amount of pollutants entering surface and ground waters).</li> </ul> </li> <li>Develop and implement appropriate control program elements in the 1998 Model Urban Runoff Program (MURP) "How-to" Guide. (Control program elements include: Public Involvement/ Participation, Public Education and Outreach, Illicit Connection/Discharge Detection and Elimination Program, Municipal Operations, Construction Sites, Development/ Redevelopment Runoff Control, Commercial Facilities Runoff Control, Industrial Facilities Runoff Control.) Recommended actions within these control program elements include:         <ul> <li>Use the revised CEQA checklist included in</li> </ul> </li> </ol>	<ul> <li>CMB</li> <li>SLO Co.</li> <li>RWQCB</li> <li>CCC</li> <li>Consider Cuesta College and Camp San Luis Obispo</li> </ul>												
the MURP "How-To" Guide.	SLO Co. P&B Depts.			.									

Table 5.1 Recommended Actions to Improve the Institutional Framework (continued)

		Priority Problem							NPS	S MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
20.2 As part of a project plan (e.g., drainage and/or erosion control), require an analysis of the effect of the drainage water on receiving water quality and condition projects to minimize pollutants in runoff and discharged to receiving water.	•	•	•	1	•		•			1			
20.3 Apply actions listed above for runoff from developing areas for roads, highways and bridges projects.		✓	1	✓	1					1			
21. Update the CMB and SLO Co. General Plans/LCPs to incorporate nutrient management practices for new developments such as commercial areas, residential areas, roads and highways and recreational areas (e.g., landscaped parks and golf courses).	•				1					1			
22. Seek funding to upgrade the City of Morro Bay storm drain system to iclude storm water quality features (e.g., to replace aging storm water drain pipelines, install silt/grease traps, and implement maintenance and monitoring programs to ensure effectiveness).		•	1	1	1					<b>\</b>			
<ul> <li>23. Facilitate approval and implementation of new wastewater treatment system by:</li> <li>23.1 improving communication and coordination between SLO Co., RWQCB, and community;</li> <li>23.2 seeking/acquiring funds to defray costs to residents;</li> <li>23.3 increasing public understanding and awareness of water quality data, sources of pollution, impacts of pollution and need for controlling pollution.</li> </ul>	• RWQCB						•						

		Priority Problem							NPS	S MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	НМ /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
<ul> <li>24. Facilitate creation of a septic tank maintenance district (interim for problem areas, long-term for areas not served by new treatment system). The district's responsibilities could include:</li> <li>24.1 Regular inspection and maintenance of systems;</li> <li>24.2 Development of contingency plans for dealing with leaks and failures and provide assistance securing funds for system replacement or upgrades;</li> <li>24.3 Participation in monitoring or effluent tracing to assist in identifying problem areas or systems.</li> </ul>	• RWQCB • NEP		1										
25. Develop and implement contingency plans to avoid impacts from septic systems due to flooding and wet weather conditions. Plans may include interim disinfecting of surface and subsurface water prior to discharge to the Bay and dewatering of shallow groundwater areas or low lying areas prior to wet weather.	• RWQCB • NEP		•		·					•			
26. Provide education and technical assistance to system owners about proper operation and maintenance of onsite disposal systems.			•	•			-9			1			
and disposal facilities for chemical materials generated by maintenance, washing and cleaning of boats and associated facilities; distribute information and use signs to make sure users are aware of these	<ul> <li>NEP</li> <li>CMB     Harbor</li> <li>SLO Co.</li> <li>DBW</li> <li>CIWMB</li> </ul>				•								

Table 5.1 Recommended Actions to Improve the Institutional Framework (continued)

			Pr	iority	Probl	em			NPS	S MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
28. Identify appropriate sites to keep oil and other contaminants off marina and boat yard surfaces, site recycling/disposal areas for bilge water, used oil, used batteries, etc. near marina fueling stations for maximum convenience and accessibility by boaters.	CMB     Harbor				1						1		
29. In collaboration with regional waste districts local fire departments, EHD and other agencies, assist harbor in the siting of waste collection sites.	SLO Co.			•							1		
30. Properly operate and maintain existing pumpout, dump station, and restroom facilities by inspecting and fixing malfunctions, making such facilities accessible, and encouraging the use of these facilities on a regular basis.	<ul> <li>CMB     Harbor     Dept.</li> <li>DP&amp;R</li> <li>DBW</li> </ul>		<b>✓</b>	✓.	•						<b>✓</b>		
31. Develop and implement a public outreach and education program, including signs and brochures, to explain sources, impacts and available control measures such as locations and availability of pumpout facilities, restrooms, and trash receptacles. Include information about legal dumping practices and locations, illegal practices and locations, and ramifications of illegal or inappropriate dumping (regulations and penalties for violations).	Harbor Dept. • SLO Co. • RWQCB • CCC • DBW		•	1			.,		-		•		

^^

		Priority Problem							NPS	S MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
32. Establish a hotline for reporting pollutant violations and pollutant sightings:	<ul><li>CMB</li><li>SLO Co.</li><li>RWQCB</li><li>DP&amp;R</li><li>DFG</li><li>USCG</li></ul>		1	<b>√</b>	1				·		1		
<ul> <li>33. Implement an interagency outreach/inspection program that increases the physical presence of agencies with pollution discharge violation enforcement authorities.</li> <li>33.1 Coordinate schedules, authorities (jurisdictional overlap) and field practices (locations, photo-documentation, checklists) to minimize duplicative efforts.</li> <li>33.2 Develop a joint inspection program to minimize the inspections any one agency has to make; use staff from each agency as "eyes" and spokespersons for the others.</li> <li>33.3 Report any important field observations or potential violations to appropriate agency for follow-up action.</li> <li>33.4 Consider and implement, if needed, a "No Discharge Area" designation for portions of the Bay outside the CMB's jurisdiction</li> <li>33.5 Increase enforcement of existing laws</li> </ul>	<ul><li>SLO Co,</li><li>RWQCB</li><li>DP&amp;R</li><li>DFG</li><li>SLC</li></ul>												

Table 5.1 Recommended Actions to Improve the Institutional Framework (continued)

		Priority Problem							NPS	S MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
34. Evaluate CMB Harbor Dept. approach to permitting liveaboard vessels; implement mechanisms to increase staff or improve permitting efficiency at the City and County levels	Harbor		1	1	1						1		
35. Seek and secure funding sources for construction, renovation, operation, and maintenance of pumpout and dump stations, including mobile pumpout boats, through Pumpout Grant Program and other sources.	• NEP • DBW		•	1							1		
36. Notify boaters of location of new facilities explain procedures and encourage their use.	<ul> <li>CMB     Harbor</li> <li>NEP</li> <li>USCG</li> <li>USCG     Auxiliary</li> </ul>		•	•	1						•		
37. Use good housekeeping practices at existing operation and maintenance and facilities to prevent spills, accidental or inappropriate exposure of chemicals and materials to runoff or directly to the bay; provide brochures and educational materials about appropriate practices to encourage implementation	• CMB Harbor • DBW • CCC		<b>\</b>	<b>&gt;</b>	•		•				<b>*</b>		

		Priority Problem							NPS	S MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ág	For	Urb	Mar	Hyd	Wet
<ul> <li>38. Encourage the removal of boats from the water before conducting cleaning and maintenance activities. For boats that are in the water, perform:</li> <li>topside cleaning and maintenance operations to minimize, to the extent practicable, the release to surface waters of (a) harmful products such as cleaners and solvents and (b) paint; and</li> <li>underwater hull cleaning and maintenance operations to minimize the release of paint and anodes</li> </ul>	<ul><li>SLO Co.</li><li>DFG</li><li>DP&amp;R</li></ul>				•						1		
39. Develop a periodic waste collection and pickup program to transfer wastes collected at the harbors to appropriate county waste sites. Set dates for pickup events within the harbors contract with a certified waste hauler.	Harbor										•		
40. Provide dispensers near dump stations with oil absorbent pads for boaters to remove small spills and small amounts of oil from bilge water (provide at low to no cost). Develop an effective means of properly disposing of spent pads as hazardous waste.	CMB     Harbor				•		-9				•		

1 20 1000

Table 5.1 Recommended Actions to Improve the Institutional Framework (continued)

Recommended Actions to Improve the A		Priority Problem						<u> </u>	NPS	MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
41. Develop and encourage appropriate fish processing practices for commercial and sportsfishing by providing fish cleaning facilities, fish waste disposal restrictions, public outreach and education about impacts of improper disposal and methods of proper disposal.	<ul><li>SLO Co.</li><li>DP&amp;R</li><li>DFG</li><li>RWQC</li><li>CCC</li><li>DBW</li></ul>		1	1							J		
42. Evaluate general effects of proposed channelization and channel modification projects on instream flows and riparian areas. Evaluate these effects as part of watershed plans, land use plans, and new development plans. Incorporate or modify existing plans to accommodate the results of the evaluation.	• CMB • SLO Co.	<b>&gt;</b>		•		•			·	-		•	
projects. BMPs to consider include streambank protection, channel stabilization and flow restrictors, check dam systems, grade control structures, vegetative cover, instream sediment load control. Emphasize bioengineering and vegetative techniques. Methods of evaluation include habitat evaluations such as rapid bioassessment and Rosgen stream classification system.	<ul><li>SLO Co.</li><li>CMB</li><li>RWQCB</li><li>Others</li></ul>	•	•	•			•					•	
44. As part of a new development project plan (e.g., drainage and/or erosion control), require an analysis of the effect of the project on stream-banks or shoreline and condition projects to protect them (refer to MURP "How-to" Guide).	• SLO Co.	1					1					<b>√</b>	:

^

		Priority Problem							NPS	S MM	Categ	ories	
Actions	Implementing Agencies	Rap Sed	Bac	Nut	HM /T	Red Flw	Hab	Ag	For	Urb	Mar	Hyd	Wet
45. Identify streambank and shoreline areas in need of protection or restoration and evaluate and implement appropriate BMPs. BMPs to consider include streambank protection, channel stabilization and flow restrictors, check dam systems, grade control structures, vegetative cover, instream sediment load control. Emphasize bioengineering and vegetative techniques.	<ul><li>SLO Co.</li><li>NRCS</li></ul>	1				•	1					1	
46. Develop and implement a long-term management plan for Chorro Reservoir.	• SLO Co.					<b>√</b>	<b>✓</b>					<b>√</b>	
47. Enforce existing plans, policies and regulations (and adopt and implement new ones, if necessary) that preserve wetlands, riparian areas and relate to maintenance of instream flows.	• SLO Co.						•						1
48. Identify wetland and riparian areas in need of protection or restoration and evaluate and implement appropriate BMPs. Emphasize bioengineering and vegetative techniques.	<ul><li>SLO Co.</li><li>NRCS</li></ul>					1	1						1
49. RWQCB should consider issuing CWA § 401 certifications for projects in targeted sensitive areas.	• KWQCB	•	•	•	•	•	•		,				

-1 -- 2A 1AAD

TABLE 5.2

	Management Measures to Address Sources of Nonpoint Pollution in California
1.0	MANAGEMENT MEASURES FOR AGRICULTURAL SOURCES
Α	Erosion and Sediment Control
В	Facility Wastewater and Runoff from Confined Animal Facilities (all units)
C	Nutrient Management
D	Pesticide Management
Е	Grazing Management
F	Irrigation Water Management
G	Education/Outreach
2.0	MANAGEMENT MEASURES FOR FORESTRY
Α	Preharvest Planning
В	Streamside Management Areas
C	Road Construction/Reconstruction
D	Road Management
E	Timber Harvesting
F	Site Preparation and Forest Regeneration
G	Fire Management
H	Revegetation of Disturbed Areas
I	Forest Chemical Management
J	Wetlands Forest
K	
L	Postharvest Evaluation
	MANAGEMENT MEASURES FOR URBAN AREAS
3.1	Runoff from Developing Areas
A	Watershed Protection
B	Site Development
C	New Development
3.2	Runoff from Construction Sites
A	Construction Site Erosion and Sediment Control
B	Construction Site Chemical Control
<del></del>	Runoff from Existing Development
A	Existing Development
<del></del>	Onsite Disposal Systems
A	
B	
<u> </u>	Transportation Development: Roads, Highways and Bridges Planning, Siting, and Developing Roads and Highways
A	
B	
E	
F	Road, Highway, and Bridge Runoff Systems
_	Education/Outreach
3.0 A	
	2 official 2 for official Addition, General Bources

TABLE 5.2(Cont.)

Management Measures to Address Sources of Nonpoint Pollut	
4.0 MANAGEMENT MEASURES FOR MARINAS & RECREATION	AL BOATING
4.1 Assessment, Siting and Design	
A Water Quality Assessment	
B Marina Flushing	
C Habitat Assessment	
D Shoreline Stabilization	
E Storm Water Runoff	
F Fuel Station Design	
G Sewage Facilities	
H Waste Management Facilities	
4.2 Operation and Maintenance	
A Solid Waste Control	
B Fish Waste Control	
C Liquid Material Control	
D Petroleum Control	
E Boat Cleaning and Maintenance	
G Maintenance of Sewage Facilities	
H Boat Operation	
4.3 Education/Outreach	
A Public Education	
5.0 MANAGEMENT MEASURES FOR HYDROMODIFICATION.	
5.1 Channelization and Channel Modification	
A Physical and Chemical Characteristics of Surface Waters	
B Instream and Riparian Habitat Restoration	
5.2 Dams	
A Erosion and Sediment Control	
B Chemical and Pollutant Control	
5.3 Streambank and Shoreline Erosion	
A Eroding Streambanks and Shorelines	
5.4 Education/Outreach	
A Pollution Prevention/Education	
B Education/Assistance	
6.0 MANAGEMENT MEASURES FOR WETLANDS, RIPARIAN AI TREATMENT SYSTEMS	REAS, & VEGETATED
A Protection of Wetlands and Riparian Areas	
B Restoration of Wetlands and Riparian Areas	
C Vegetated Treatment Systems	<del></del>
D Education/Outreach	

#### 6.0 REFERENCES AND PERSONS CONSULTED

#### 6.1 REFERENCES

Management Measure Review Document, California Coastal Commission and State Water Resources Control Board, 1998

National Estuary Program Guidance, Base Programs Analysis, US EPA, 1993

National Estuary Program, The Nomination of Morro Bay, California Environmental Protection Agency, State Water Resources Control Board

#### 6.2 PERSONS CONSULTED

#### Morro Bay National Estuary Program Staff

- 1. Melissa Mooney, Director
- 2. Katie Kropp, Technical Director

#### Local Agencies

- L1. City of Morro Bay Planning and Building Department Shauna Naumann: (805) 772-6200
- L2. City of Morro Bay Public Works Department Bill Boucher: (805) 772-6261
- L3. City of Morro Bay Harbor Department Rick Algert: (805) 772-6254
- L4. San Luis Obispo County Planning and Building Department Mike Wulkan: (805) 781-5603
- L5. San Luis Obispo County Public Health Department, Environmental Health Division Susan Ayers: (805) 781-5544
- L6. San Luis Obispo County Engineering Department Greg Martin: (805) 781-5252
- L7. San Luis Obispo County Agriculture Department John Warrick: (805) 781-5910
- L8. San Luis Obispo County General Services, Parks

- L8. San Luis Obispo County General Services, Parks Sandra Zaida: (805) 781-5200
- L9. Coastal San Luis Resource Conservation District (RCD) Scott Robins: (805) 772-4391
- L10. City of Morro Bay Recreation and Parks Department Andrea Lueker: (805) 772-6282
- L11. San Luis Obispo County Air Pollution Control District (APCD)
  Robert Carr: (805) 781-5912
- L12. San Luis Obispo County -- Council of Governments (SLOCOG) Richard Murphy: (805) 781-5714

#### State Agencies

- S1. California Coastal Commission (CCC), Resources Agency Cy Oggins: (415) 904-5200
- S3. Department of Fish and Game, Office of Oil Spill Prevention and Response (OSPR), Resources Agency Melissa Boggs: (805) 772-1756
- S5. Department of Pesticide Regulation (DPR), Cal/EPA Madeline Brattesani: (916) 324-4100
- S6. Regional Water Quality Control Board (RWQCB), Cal/EPA Lisa Horowitz-McCann: (805) 549-3132
- S7. State Coastal Conservancy (SCC), Resources Agency Carol Arnold: (510) 286-1015
- S8. State Lands Commission (SLC) John Lien: (916) 574-1900
- S9. State Water Resources Control Board (SWRCB), Cal/EPA Ken Coulter: (916) 657-2390
- S10. California Conservation Corps, Resources Agency Bruce Bonifas: (805) 549-3561
- S11. California Integrated Waste Management Board (CIWMB), Cal/EPA John Frith: (916) 255-2200
- S12. California National Guard—Camp San Luis Obispo, Military Department Brian Duke: (805) 238-8418
- S13. Department of Boating and Waterways (DBW), Resources Agency John Middleton: (916) 415-2616
- S14. Department of Conservation (DOC), Resources Agency Mike Stetner: (916) 324-0850
- S19. Department of Water Resources (DWR), Resources Agency Charles White: (916) 653-5791
- S20. Office of Environmental Health Hazard Assessment (OEHHA), Cal/EPA William F. Soo Hoo: (916) 324-7572
- S21. University of California, Cooperative Extension Service (U.C. Extension)
  Bill Weitkamp: (805) 781-5940

#### Federal Agencies

- F1. U.S. Environmental Protection Agency (EPA) Cheryl McGovern: (415) 744-2013
- F2. U.S. Army Corps of Engineers (ACOE) -Planning Division, Coastal Resources Branch:
  Stephen Fine: (213) 452-3821
  Hoa Ly: (213) 452-3824
  Regulatory Division, Ventura Field Office:
  Tiffany Welch: (805) 641-2935
- F3. U.S. Fish and Wildlife Service (USFWS), U.S. Dept. of the Interior Kate Symonds: (805) 644-1766
- F4. Natural Resources Conservation Service (NRCS), U.S. Dept. of Agriculture (USDA) Scott Robins: (805) 772-4391
- F5. Farm Service Agency (FSA), USDA Cathy Borg: (805) 434-0398
- F6. National Oceanic and Atmospheric Administration (NOAA), U.S. Dept. of Commerce Deborah McCardle: (805) 882-1889
- F7. NOAA, National Marine Fisheries Service (NMFS), U.S. Dept. of Commerce Bob Hoffman: (310) 980-4000
- F8. U.S. Coast Guard (USCG)
  Lt. Dan Bennet: (805)772-2167
- F9. U.S. Forest Service (USFS), USDA Melody Fountain: (805) 925-9538

### 7.0 APPENDICES

- 7.1: MATRIX OF INSTITUTIONAL FRAMEWORK
- 7.2: QUESTIONNAIRE ON PROGRAM EFFECTIVENESS
- 7.3: RESPONSES TO QUESTIONNAIRE

## 7.1: MATRIX OF INSTITUTIONAL FRAMEWORK

## Programs Addressing Priority Problems <u>SEDIMENTATION</u>

ં પ્રાથમિક છે. ેં કે કે કે કે કે કે કે કે કે કે કે કે કે	Resource as	Rinance	Voluntary .	Balicentonia edi 74887	Planning
LOCAL AGENCIES					
■ General Plan (CMB & SLO-P&B) ■ Local Coastal Program (CMB & SLO-P&B) ■ Zoning Ordinance (CMB & SLO-P&B) ■ Subdivision Ordinance (CMB & SLO-P&B) ■ City Building Ordinance ■ Building and Construction Title 14 (CMB-P&B) ■ Permitting (CMB & SLO-P&B) ⇒ CDP's ⇒ Grading ⇒ Tree Removal ⇒ Flood Hazard ■ CEQA - Lead Agency (CMB & SLO-P&B) ■ Sedimentation & Erosion Control Plan (SLO P&B) ■ Flood Hazard Area Planning (SLO-Eng.)	■ Dredging Activity Coordination with Federal Agencies (CMB H) ■ Drainage Plan Review & Approval (SLO-Eng.) ■ Jurisdictional Authority (SLO-Eng.) ■ Morro Bay Watershed Enhancement Plan (RCD with SCC / NRCS) ■ Chorro Flats Acquisition & Enhancement (RCD, SCC) ■ Los Osos Creek Conservation Easement Acquisition and Enhancement Project (RCD with SCC / NRCS) ■ Agricultural Preserve Program (SLO-P&B) ■ Coordinated Resource Management and	■ Morro Bay Watershed Enhancement Plan (RCD with SCC / NRCS) ■ Los Osos Creek Property Conservation Easement Acquisition and Enhancement Project (RCD with SCC / NRCS) ■ Grants (RCD) ■ Capitol Improvement Program (SLO P&B)	<ul> <li>■ Conservation         Planning (RCD, NRCS)</li> <li>■ Planning Area         Programs (SLO P&amp;B, SLO Eng.)         ⇒SLO Area Plan         (Runoff Monitoring)         ⇒San Luis Bay         Area Plan         (Channel Maintenance)         ⇒Estero Area Plan         ■ Conservation Plan         Development (CSL-RCD)</li> </ul>	■ Workshops / Demonstration Projects (RCD)	■ Storm Drain Master Plan (CMB P&B, PW) ■ Drainage Plan Review and Approval (SLO-Eng.) ■ Conservation Planning (RCD, NRCS) ■ Area Plans (SLO-P&B)

## Programs Addressing Priority Problems <u>SEDIMENTATION</u>

ાદલવામાં છામું જ	Resource	Pinance of	Voluntary + ;	Education/Tash Ass.	Planning,
·	Planning (CRMP)				
	Process (CSL RCD)	STATE A	GENCIES		
■ CEQA Review (CCC, DWR, RWQCB, DF&G) ■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ Water Pollution Control (§ 5650) (DF&G) ■ Dredging Permits (§ 5653) (DF&G) ■ State Water Quality Standards (SWRCB) ■ Basin Planning Program (SWRCB) ■ Timber Harvest Plans (CDFFP) (Has MAA w/ SWRCB) ■ Lake or Streambed Alteration Permit (DF&G) ■ National Pollution Discharge Elimination System	■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB - approved by NOAA / EPA) ■ Water Quality Assessment (SWRCB, RWQCB) ■ Nonpoint Source Management Program (SWRCB) ■ TMDL's (RWQCB, US EPA) ■ Regional Monitoring (RWQCB) ■ Nonpoint Source Pollution Program (SWRCB) ■ California Management Initiative (WMI) (RWQCB, US EPA, SWRCB) ■ Morro Bay Watershed Sedimentation Study (SCC) ■ Morro Bay	■ Riparian Habitat Conservation Program (DF&G) ■ Morro Bay Watershed Enhancement Plan (SCC) (RCD implemented) ■ Chorro Flats Acquisition and Enhancement (SCC) (RCD led project) ■ Environmental Enhancement and Mitigation Program (i.e. matched grant from SCC for Chorro Creek) (Caltrans) ■ Urban Streams Restoration Program (DWR) ■ State Revolving Fund (SWRCB, RWQCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds	□ Agricultural Land Stewardship Program (DOC, Office of Land Conservation) □ Williamson Act Program (DOC, Office of Land Conservation) □ Forest Stewardship and Stewardship Incentive Program (CDFFP) □ NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G) ■ Morro Bay Watershed Demonstration Projects Program (SCC) (RCD implemented) ■ Volunteer monitoring (RWQCB)	□Soil Resource Protection Program (DOC, Office of Land Conservation) □Watershed Management Education Program (UC Ext.) □Ranch Planning Short Course (UC Ext.) ■ Model Urban Runoff Program (CCC) ■ Project Wild (DF&G) ■ Agricultural Drainage Reduction (DWR)	■ Stormwater Pollution Prevention Plan (CNG) ■ Land Management Plan for Camp San Luis Obispo (financed by CMD, prepared by NRCS, implemented by CNG,) □ Farmland Mapping and Monitoring Program (DOC, Office of Land Conservation) □ Fire and Resource Assessment Program (CDFFP) □ California Fire Plan (CDFFP) ■ Local Coastal Planning (CCC) ■ California Fire Plan (CDFFP) □ Stream and Watershed Planning and Restoration Program (DF&G) ■ Integrated Natural Resources

# Programs Addressing Priority Problems <u>SEDIMENTATION</u>

!સંકુથમાં કાંઈ તં <i>ર</i>	Resource	Finance	- Voluntary	Ddirection/Redii Ass.	Planning
(NPDES) (RWQCB)  Water Quality	Watershed Enhancement Plan	(SWRCB, RWQCB) ■ Land Management			Management Plan (INRMP) (CNG)
Certification	(SCC)	Plan for Camp SLO			
(RWQCB)	■ Morro Bay	(financed by CMD,			
■ State Lands	Watershed	prepared by NRCS, implemented by CNG)			
Dredging Permit	Demonstration	1			
(SLC)	Projects (SCC)				
■ Harvesting of	■ Chorro Flats			,	
Timber Leases (SLC)	Acquisition &				
■ Grazing Lease (SLC)	Enhancement (SCC,				
	RCD)		·.		
	■ Los Osos Creek				
	Conservation				
]	Easement				
	Acquisition &				
	Enhancement (SCC)				
	■ Land Management				,
	Plan for Camp SLO				
	(financed by CMD,				
	prepared by NRCS, implemented by CNG)				·
	Sustained Plan				
	Yields (CDFFP)		·		
	■ Fire/Resource				
	Assessment			19	
	Program (CDFFP)				
	■ California Fire Plan		,	•	
	(CDFFP)				
	■ California Wild				
	(Caltrans)				
		FEDERAL	AGENCIES		

# Programs Addressing Priority Problems <u>SEDIMENTATION</u>

े असम्बंधितिक हैं।	Resource 78 a	Finance	Voluntary	Education/Rech. Ass.	Raming 44
■ Coastal Nonpoint Pollution Control Program (NOAA, EPA) (implemented by CCC/SWRCB) ■ Total Maximum Daily Load (EPA)	■ Water Quality Assessment (EPA) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS, UC Ext., FSA) ■ Small Watershed Program and Flood Prevention Program (NRCS) ■ Watershed Surveys and Planning (NRCS) ■ National Forest System (USFS) ⇒ Los Padres National Forest Plan (USFS) ■ Coastal and Marine Geology Program (USGS)	□Conservation Reserve Program (NRCS, FSA) ■ Environmental Quality Incentives Program (NRCS, FSA) ■ Hydrologic Unit Area Grant Program (NRCS) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS) ■ Emergency Conservation Program (FSA) ■ Flood Risk Reduction Program (FSA)	■ Coastal Nonpoint Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB)	■ Hydrologic Unit Area Grant Program (NRCS) ■ Morro Bay Watershed Hydrologic Unit Area Project (NRCS) ■ Conservation Technical Assistance (NRCS) ■ Conservation of Private Grazing Land Initiative (NRCS) ■ Water Quality/Quantity (USGS)	■ Los Padres National Forest Plan (USFS)

Regultion	F S Resource	Fig. Kinance F	Voluntary*	Editertion/Tech Assi-	Planning
		- IOCAL/AGENCIES	GENCIES - THE C		
■ General Plan (CMB,	■ Resource		■ Derelict Vessel	■ Harbor Patrol	■ Wastewater
SLO P&B))	Management		Removal (CMB H)	Service (CMB H)	Treatment Program
■ LCP (CMB, SLO P&B))	System (SLO P&B)		■ Planning Area		
■ Zoning Ordinances			Programs (SLO P&B,		■ Sewer Master
(CMB)			SLO Eng.)		Plan/Collection
■ Subdivision			⇒Salinas River		System Master Plan
Ordinances (CMB)			Area Plan		(CMB P&B, PW)
■ City Building			(Septage Disposal)		■ County Service
Ordinance (CMB)					Area 9 - Special
■ Permitting (CMB					District (SLO-Eng.)
■ Live Aboard Permit					■ Tidelands Park
Program (CMB H)					Master Plan (CMB
■ CEQA - Lead					P&B, CMB H, CMB Parks
Agency (CMB, SLO-					, margaret
P&B)					
■ Waste Management					
Program (SLO-HA)					
⇒Solid Waste	_				
Program					
⇒Liquid Waste					
Management					
Program					•
⇒Land Use				•	
Program					
⇒Cross Connection					
Program					Till mediation of the party of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of
		STATE AGENCIES	FENCIES		
■ Local Coastal	■ Coastal Nonpoint	■ Pumpout Grant	■ Boating Clean and	DMURP (ccc)	■ Local Coastal
Planning (CCC)	Pollution Control	Program (DBW)	Green Campaign	■ Aquatic Safety	Planning (CCC)

			Colonia and Colonia	Andrew State Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee	and the second
: ::/ Regulator/*	Resource	Rinance y	Voluntary		Planning
■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC, DWR, RWQCB) ■ Water Pollution Control (§ 5650) (DF&G) ■ State Water Quality Standards (SWRCB) ■ Water Quality Certification (RWQCB) ■ Waste Discharge Requirements (RWQCB) ■ Basin Planning Program (RWQCB, SWRCB) ■ National Pollutant Discharge Elimination System (RWQCB) ■ Prohibitions and		■ Public Water System Financial Assistance Program (DHS) ■ State Revolving Fund (RWQCB, SWRCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB)	(CCC) ■ California Clean Boating Network (CCC) □ NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G)	Education/Tech. Assis  Educational Program and materials (DBW)  ⇒ Vessel Pumpout Locator Cards  ⇒ Shipshape Sanitation, MSD's, and Pumpouts  ⇒ Clean Vessel Act  ⇒ Federal Water Pollution Control Act information  ⇒ MARPOL Annex V information  ■ Watershed Management Education Program (UC Ext.)  ■ Ranch Planning Short Course (UC Ext.)	Planning
	` '				

Régulators/	it of a Resource	area Dinance 50	Voluntary &	Daheatlon/Rédic Ass	Planning
Late of a substantial region of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o					
(DHS) ⇒Shellfish	Projects (SCC)	·			·
J ·	■ Derelict Vessels				
Growing Area	(SLC)				
Certificates	■ Stormwater	,			
⇒Shellfish	Pollution Prevention				
Handling and	Plan (SWPPP) (CNG)				
Marketing	■ Land Management				
Certificate	Plan for Camp SLO			<b>\</b>	
■ Maximum	(CNG)				
Contaminant Levels	□ Water Management				
for Drinking Water	Initiative (WMI)			1	
(DHS)	(RWQCB, US EPA, SWRCB)				
■ Provisions for the	SWRCD)				
protection of water					
quality (DHS)	,				
■ Sanitation of Public					
Beach Standards					
(DHS)					
■ Backflow/Contamin			,		
ation of Public					
Water Systems					i
Prevention (DHS)					
■ Water Quality					
Enforcement	·			••	
Actions (RWQCB)		J			
■ State Lands Lease			•		
(SLC)					
■ Grazing Lease (SLC)					
		FEDERAL	AGENCIES		
■ National Pollution	■ National Monitoring	■ National Monitoring	■ Coastal Nonpoint	■ National Monitoring	

ा स्टब्रोधक है _।	A Resource	Finance	Voluntary 1	Education/Tech Ass.	Planning :
Discharge Elimination System Program (EPA)  Water Quality Criteria Program (EPA)  Nonpoint Source Pollution/CZARA Program (EPA)  Waste Management (USCG)	Program (EPA)  Water Quality Assessment (EPA)  Morro Bay Watershed Hydrologic Unit Area Project (NRCS, UC Ext., FSA)  Coastal and Marine Geology Program (USGS)	Program (EPA)  National Pollution Prevention Program (EPA)  Clean Vessel Act Grants (USFWS)  Environmental Quality Incentives Program (NRCS)  Morro Bay Watershed Hydrologic Unit Area Project (NRCS)	Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB) Sea Partners Campaign (USCG)	Program (EPA)  National Pollution Prevention Program (EPA)  Morro Bay Watershed Hydrologic Unit Area Project (NRCS)  Water Quality/Quantity (USGS)	

Regulation	Resource Resource	Finance of the	Voluntary	Education/Tech Ass.	Planning
Violente Barre			GENCIES		
■ General Plan (CMB, SLO P&B)  ⇒ Ag. & Open Space Element ■ Local Coastal Plan (CMB, SLO P&B) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ Permitting (CMB & SLO-P&B) ⇒ CDP's ■ CEQA - Lead Agency (CMB, SLO-P&B) ■ Waste Management Program (SLO-HA) ⇒ Solid Waste Program ⇒ Liquid Waste Management Program ⇒ Liquid Waste Program ⇒ Land Use Program ⇒ Cross Connection Program ■ Live-aboard Permits	■ Agricultural Preserve Program (SLO P&B) ■ Drainage Plan Review and Approval (SLO Eng.) ■ Morro Bay Watershed Enhancement Plan (MBWEP) (CSL RCD) ■ Chorro Flats Acquisition and Enhancement Project (CSL RCD) ■ Los Osos Creek Property Conservation Easement Acquisition and Enhancement Project (CSL RCD)	BOCALIA	■ Planning Area Programs (SLO P&B, SLO Eng.) ⇒SLO Area Plan (Runoff Monitoring) ⇒Salinas River Area Plan (Septage Disposal) ■ Conservation Plan Development (CSL RCD)	■ Harbor Patrol Service (CMB H) ■ Morro Bay National Estuary Program (MBNEP) (SLO Eng.) ■ Workshops/Demons tration Projects (CSL RCD)	■ County Service Area 9 - Special District (SLO-Eng.) ■ Storm Drain Master Plan (CMB P&B) ■ Wastewater Treatment Program (CMB P&B) ■ Sewer Master Plan/Collection System Master Plan (CMB P&B)

Program (CMB H)  Sedimentation and	Resource	Finance :	24 Voluntary, s	Pitheation/Tech Ass *	Pänning see
Erosion Control Plan (SLO P&B)					
■ Local Coastal	■ Coastal Nonpoint	STATE A  ■ State Revolving	GENCIES  □NRCS Coordinated	□MURP (ccc)	■ Agricultural Water
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ Lake or Streambed Alteration Permits (DF&G) ■ Backflow/ Contamination of Public Water Systems Prevention (DHS) ■ CEQA Review (CCC, DWR, RWQCB) ■ Water Pollution Control (§ 5650) (DF&G) ■ State Water Quality Standards (SWRCB) ■ Water Quality	Pollution Control Program (CCC, SWRCB - approved by NOAA/EPA) (CZARA § 6217)  Water Quality Assessment (SWRCB, RWQCB)  TMDL's (RWQCB, US EPA)  Basin Planning (RWQCB)  Nonpoint Source Management Program (RWQCB)  CEQA Document Review (RWQCB)  Regional Monitoring (RWQCB)  Nonpoint Source Pollution (NPS) Program (SWRCB)	Fund (RWQCB, SWRCB) Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB) Public Water System Financial Assistance Program (DHS)	Resource Management and Planning (CRMP) Process (DF&G)  Agricultural Land Stewardship Program(ALSP) (DOC)	■ Environmental Compliance, Permitting and Review Assistance (DWR) ■ Agricultural Drainage Reduction (DWR) ■ Agricultural Efficient Water Management Practices (DWR) ■ Agricultural Training and Education Program (DWR) ■ Urban Streams Restoration Program (DWR) ■ Mobile Irrigation Management Laboratories (DWR)	Management Planning (DWR) Integrated Natural Resources Management Plan (INRMP) (CNG)

			(Nonne de la regional de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la region de la reg		
Regulatow	Resource s	<b>Finance</b>	<b>Voluntary</b>	Education/Itedi Ass.	Planning
Certification	■ Stormwater			■ Ca. Irrigation	
(RWQCB)	Pollution Prevention			Management	
■ Water Quality	Plan (SWPPP) (CNG)			Information System	
Enforcement	■ Land Management	`		(DWR)	
Actions (RWQCB)	Plan for Camp SLO			■ Farmland Mapping	
■ Prohibitions and	(CNG)			and Monitoring	
Prohibition	□ Water Management			Program (FMMP)	
Exemptions	Initiative (WMI)			(DOC)	
(RWQCB)	(RWQCB)			■ Soil Resource	
■ Waste Discharge	, , ,			Protection Program	
Requirements				(DOC)	
(RWQCB)				■ Watershed	
■ Basin Planning				Management	
Program (RWQCB,				Education Program	
SWRCB)	•		·	(UC Ext.) ■ Ranch Planning	
■ National Pollutant	,			<u> </u>	
Discharge				Short Course (UC Ext.) (?)	
Elimination System				Ext.) (1)	
(RWQCB)				•	
■ Irrigation Control					
Programs (DHS)		,			
■ Grazing Lease (SLC)		·			
■ Harvesting of					
Timber Lease (SLC)				49	,
■ Model Water					
Efficient Landscape			·		·
Ordinance (DWR)					• •
■ Timber Harvest					
Plans (CDFFP) (Has			·		

ikegulatory	Resource	Finance -	Voluntary:	Education/Pech Ass	Planning
MAA w/ SWRCB)					
■ Water Quality		,			
Protection (DHS)	,				
■ Regulation of					
"Garbage" in					
Navigable Waters (DHS)			!		
<u> </u>			<u> </u>		
			<u>AGENCIES</u>		
	■ National Monitoring	■ National Monitoring	■ Coastal Nonpoint	■ National Monitoring	
· .[	Program (EPA)	Program (EPA)	Pollution Control	Program (EPA)	
	■ Water Quality	■ National Pollution	Program (approved by	■ National Pollution	
1	Assessment (EPA)	Prevention Program	NOAA/EPA,	Prevention Program	
	■ Irrigation	(EPA)	implemented by CCC, SWRCB)	(EPA)	
	Drainwater Program	■ Environmental	OWNED)	■ Morro Bay	
	(USFWS)	Quality Incentives		Watershed	
}	■ Morro Bay	Program (NRCS)		Hydrologic Unit	
	Watershed	■ Morro Bay		Area Project (NRCS)	
	Hydrologic Unit	Watershed		■ Water	
	Area Project (NRCS,	Hydrologic Unit		Quality/Quantity	
1	UC Ext., FSA)	Area Project (NRCS)		(USGS)	
	■ Coastal and Marine				
	Geology Program				
	(USGS)	,		.,	

Planning .		■ County Service	Area 9 - Special	District (SLO-Eng.)	■ Risk Management	and Prevention Plan	(RMPP) (SLO HA)	■ Hazardous Materials	Program (SLO Ag.)	, )																			
Education/Tech. Ass.			·					-										•	-					•		•			
Voluntary	LOCAL AGENCIES																									,		-	
· · · · · · · · · · · · · · · · · · ·	LOCAL A															Herri													-
Resource # 15		■ Environmental	Monitoring (SLO Ag.)												-														
Regulators		■ General Plan (CMB.	SLO P&B)	■ LCP (CMB, SLO P&B)	■ Zoning Ordinances	(CMB)	■ Subdivision	Ordinances (CMB)	■ Permitting (CMB)	■ CEQA - Lead	Agency (SLO-P&B)	<ul> <li>Statewide Pesticide</li> </ul>	Program (CAC)	■ Restricted Materials	Permits (CAC)	■ Registration of	Pesticide Users	(CAC)	■ Pesticide	Management Zones	(CAC)	■ Hazardous Waste	Management/	Materials Program	(SLO-HA)	⇒Underground	Storage Tanks	⇒Emergency	Response

BEARS, PROPERTY OF	DATATE TO SHOW	Finance 5	Voluntary	Editerion/Teel Ass	Planning .
Regulatory	Resource			Constructive to produce the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of th	
⇒Hazardous Waste	•			-	
Management					·
Standards and			·		
Regulations					
■ Surface Mining					
Operations Permit					
and Reclamation					
Plan (SLO P&B)					
■ Drilling Permit (SLO					
P&B)					
■ Small Water					_
Program (SLO HA)					
■ Waste Management					
Program (SLO-HA)					
⇒Solid Waste					
Program					
⇒Liquid Waste					
Management					
Program				·	
⇒Land Use					
Program	<i>.</i>				
⇒Cross Connection					
Program					
			GENCIES		
■ Local Coastal	■ Coastal Nonpoint	■ State Revolving	□NRCS Coordinated	Inactive Mine	■ Integrated Training
Planning (CCC)	Pollution Control	Fund (SWRCB)	Resource	Reclamation/Remed	Area Management
■ Coastal	Program (CCC,	■ Clean Water Act §	Management and	iation (RWQCB)	(ITAM) (CNG)
Development	SWRCB - approved by	205(j) Grant Funds	Planning (CRMP)	■ California	■ Diversion, Planning

Regulation Resource	ge state of Ginance a	Voluntary	Education/Tech Asst.	Planning
Permits (CCC)  Federal Consistency (CCC)  CEQA Review (CCC, DWR, RWQCB)  Water Pollution Control (§5650) (DF&G)  State Water Quality Standards (SWRCB)  Water Discharge Requirements (RWQCB)  Basin Planning Program (RWQCB, SWRCB)  National Pollutant Discharge Elimination System (RWQCB)  Spills, Leaks, Investigation and Cleanup Program (RWQCB)  Maximum Drinking Water Contaminant Levels (DHS)  California Shellfish Sanitation Program  Monitoring (RWQCB)  TMDL's (RWQCB, RWQCB, EPA)  California Drinking Water Source Assessment and Protection Program (DHS)  Wellhead Protect Program (DHS)  Department of Defense (DOD) Facilities Oversig (RWQCB)  Basin Planning (RWQCB, SWRCB)  Nonpoint Source Management Program (RWQCB)  Regional Monitoring (RWQCB)  Toxic Substances Monitoring Program	(SWRCB, RWQCB) Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB) Underground Tank Cleanup Fund (RWQCB) Solid Waste Disposal and Codisposal Site Cleanup Program (CIWMB) Household Hazardous Waste (HHW) Grants (CIWMB)  th	Process (DF&G)	Environmental Technology Partnership (CETP) Certification (US EPA, DTSC) Registration of Environmental Assessors (REA) Program (DTSC) Hazardous Waste Generator/ Small Business Outreach Workshops (DTSC, CAL EPA, US EPA) Emergency Response Training (DTSC) Toxics Update (DTSC) Watershed Management Education Programs (UC Coop. Ext.) Ranch Planning Short Course (UC Coop. Ext.	and Local Assistance (CIWMB)

Regulatory	Resource	Space Finance 1842	stat Voluntary. 🤫	Education/Tech. Ass.	Planning :
(DHS)	(SWRCB)				ng panggangang namanganggan panggan panggan panggan panggan panggan panggan panggan panggan panggan panggan pa
⇒Shellfish	■ Nonpoint Source				
Growing Area	Pollution (NPS)			İ	
Certification	Program (SWRCB)			·	
⇒Shellfish ′	■ Bay Protection and			İ	
Handling and	Toxic Cleanup				
Marketing	Program (SWRCB)				
Certificates	■ Toxic Substances				
■ Solid Waste Facility	Monitoring Program				
(SWF) Permits	(SWRCB)				
(CIWMB)	■ Stormwater				
■ Hazardous Waste	Pollution Prevention				
Facilities Permits	Plan (SWPPP) (CNG)	·			
(DTSC) ■ Solid Waste	■ Site Mitigation				
Management (DHS)	program (DTSC)				·
■ Prohibitions and	■ Local Agency				
Prohibition	Cleanup Program (DTSC)	,			
Exemptions (RWQCB)					]
■ Underground	Management (PSM)				
Tanks/ Above	Program (DTSC)				
Ground Tanks	1 Togram (D13C)				[
(RWQCB)					·
■ Department of					
Defense (DOD)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Facilities (SWRCB)					
•					
		FEDERAL	AGENCIES		gallaga kanera para pengalah kebagai Kanara Manara bahan at MK Kataya bahasa bah
■ Waste Management	■ Water Quality		■ Coastal Nonpoint	■ Water	■ Los Padres National

Regulatory	Resource	Pinance .	Voluntary	Education/Tech Ass	Planning was
(USCG)	Assessment (EPA) ■ Environmental Contaminants Program (USFWS) ■ National Forest System (USFS) ⇒ Los Padres National Forest Plan (USFS) ■ Coastal and Marine Geology Program (USGS)		Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB)	Quality/Quantity (USGS)	Forest Plan (USFS)

		V			
Regulatory	Resource	Rinance	Voluntary	Education	Planning
		LILOCALA	GENCIES		
■ General Plan (CMB, SLO P&B)) ■ LCP (CMB, SLO P&B)) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB)	■ Environmental  Monitoring (SLO Ag.)	■ Transportation Enhancement Activity Program (SLOCOG)	■ Risk Management and Prevention Plan (SLO-HA)		■ Storm Drain Master Plan (CMB P&B, PW) ■ County Service Area 9 - Special District (SLO-Eng.) ■ Solid Waste Plan
■ City Building Code Ordinance (CMB) ■ Permitting (CMB, SLO P&B)					(SLO-HA) ■ Risk Management and Prevention Plan (SLO-HA)
⇒Drilling Permit  ■ CEQA - Lead  Agency (SLO-P&B)					
■ Small Water Program (SLO HA) ■ Solid Waste			,		
Program/ Solid Waste Management Plan (SLO HA)					
■ Hazardous Waste / Materials Programs (SLO-HA) ⇒ Hazardous Waste				••	
Management Standards and Regulations - has					·
MOU with DTSC ⇒Emergency					

ાં સિન્દુવાધારાજ · •	Resource	<u>Finance</u>	Voluntary	Education	Planning
Response  ⇒ Underground  Storage Tanks			to a complete a company of the design of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the compan	elisionel anauvaigamine Vassasser i differentamme (m. serva	enclasification are a separate property of the consultation and the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of the consultation of th
			GENCIES		
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC, DWR, RWQCB) ■ Water Pollution Control (§ 5650) (DF&G) ■ Hazardous Waste Facilities Permits (DTSC) ■ State Water Quality Standards (SWRCB) ■ Water Discharge Requirements (RWQCB) ■ Basin Planning Program (SWRCB, RWQCB)) ■ National Pollutant Discharge Elimination System	■ Nonpoint Source Pollution Management Program (RWQCB, SWRCB) ■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB - approved by NOAA / EPA) (CZARA § 6217) ■ State Mussel Watch Program (DF&G) ■ Toxic Substances Monitoring Program (administered by SWRCB; monitoring by DF&G) ■ Bay Protection and Toxic Cleanup Program (SWRCB, Cal.EPA, coordinates with RWQCB) ■ State Mussel Watch Program (administered by SWRCB; DF&G conducts sampling) ■ Water Quality	■ Grant Program (DTSC) ■ State Revolving Fund (RWQCB, SWRCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB) ■ Underground Petroleum Storage Tank Cleanup Fund (RWQCB, SWRCB) ■ Oil Spill Prevention and Administrative Fund (OSPR) ■ Oil Spill Response Trust Fund (OSPR) ■ Science Program (OSPR) ■ Public Water System Financial Assistance Program (DHS)	□NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G) ■ Voluntary Cleanup Program (DTSC) ■ Volunteer Network (OSPR) ■ Volunteer Outreach Program (OSPR)	■ California Compliance School (DTSC) ■ Hazardous Waste Generator / Small Business Outreach Programs (DTSC, Cal EPA, US EPA) ■ Toxics Update a bimonthly guide to Regulatory Assistance, Publications, etc. (DTSC) ■ Emergency Response Training (DTSC) ■ Boating Clean and Green Campaign (CCC) ■ California Clean Boating Network (CCC) ■ Model Urban Runoff Program (CCC)	■ Joint CCC/BCDC Oil Spill Program (CCC) (OSPRA) ■ Drills and Exercises Program (OSPR) ■ Harbor Safety Commitees (OSPR) ■ Area Committee Plans (ACPs) OSPR) ■ Coastal Protection Review (OSPR) ■ Environmental Impact Reports (EIRs) (SLC) ■ Derelict Vessels (SLC) ■ Diversion, Planning and Local Assistance (CIWMB)

Regulatory (1)	Resource 1784	A Ar A Finance	Voluntary 44	Education	2. Planning
(RWQCB) ■ Site Mitigation Program (DTSC- has MOU w/US EPA, SWRCB, RWQCB) (CERCLA; see Superfund) ■ Underground Petroleum Storage Tanks (SWRCB, RWQCB) ■ Spills, Leaks, Investigation and Cleanup Program (RWQCB) ■ Local Agency Cleanup Program (DTSC) ■ Private Site Management Program (DTSC) ■ Maximum Contaminant Levels for Drinking Water (DHS) ■ Contingency Planning (OSPR) ■ Enforcement and Inspection (OSPR) ■ California Shellfish Sanitation Program (DHS)  ⇒ Shellfish	Assessment (SWRCB, RWQCB)  TMDL's (RWQCB, US EPA)  Ca. Environmental Technology Partnership Certification (DTSC)  Registration of Environmental Assessors Program (DTSC)  Field Services Unit (OSPR)  Resource Assessment Unit (OSPR)  California Drinking Water Source Assessment and Protection Program (DHS)  Wellhead Protection Program (DHS)  Basin Planning (RWQCB)  CEQA Document Review (RWQCB)  Regional Water Quality Monitoring (RWQCB)	■ Solid Waste Disposal and Codisposal Site Cleanup Program (CIWMB) ■ Enforcement Assistance Grants (CIWMB) ■ Household Hazardous Wastes (HHW) Grants (CIWMB) ■ Used Oil Grants (CIWMB)		■ Science Program (OSPR) ■ Outreach Education Program (OSPR) ■ Coordination, Information Branch (OSPR) ■ Integrated Training Area Management (ITAM) (CNG) ■ Aquatic Safety Educational Program (AquaSMART) (DBW) ■ Oily Waste Discharge Placards Program (DBW)	

Regulatory	Resource Resource	Ejnance a	Voluntary 1	Education -	Planning ***
Growing Area	■ Hazard Removal				
Certificates	(SLC)				
⇒ Shellfish	■ Stormwater				
Handling and	Pollution Prevention	,			•
Marketing	Plan (SWPPP) (CNG,				
Certificates	RWQCB)				
■ Standards for Solid	■ Land Management				
Waste Handling/	Plan for Camp San				,
Disposal for	Luis Obispo (NRCS,				
Protection of Public	CNG)  Soil Resource				
Health (DHS)	Protection Program				
■ Water Quality	(DOC)			·	
Certification	■ NPS & Monitoring				
(RWQCB)	(RWQCB)				
■ Waste Disposal	□ Water Management				
Requirements	Initiative (WMI)				
(RWQCB)	(RWQCB, SWRCB, US EPA)				
■ Prohibitions and	Era)				
Prohibition					
Exemptions (RWQCB)					
■ Water Quality					
Enforcement				<b>-9</b>	
Actions (RWQCB)					'
■ Department of					
Defense (DOD)				•	
Facilities Oversight					
(RWQCB, SWRCB)					
Solid Waste					
Facilities (SWF)					
Permits (CIWMB)		l			

Regulatory	is Resource	Finance	Voluntary	Education :	Planning 1
Certification (CIWMB) ■ Waste Tire Facilities (WTF) Permits (CIWMB)					
Oil/Gas Permits (SLC)	constitution come et al entre de come es militar de com		AND CHES		
			AGENCIES		
■ Superfund (EPA) (CERCLA) (Site Remediation Program) ■ National Spill Prevention and Response (EPA) (CWA § 311 & OPA '90) ■ National Hazardous Waste Control Program (EPA) (RCRA) ■ National Facility Control/Reporting of Toxic Substances (EPA) ■ Oil Spill and Prevention (USCG) (OPA'90) ■ Waste Management (USCG)	■ National Monitoring Program (EPA) ■ Water Quality Assessment (EPA) (CWA § 305(b)) ■ Environmental Contaminants Program (USFWS) ■ Toxic Pollutant and Spill Response (USFWS) (OPA '90) ■ Coastal and Marine Geology Program (USGS)	■ National Monitoring Program (EPA)	■ Coastal Nonpoint Pollution Control Program (approved by NOAA / EPA, implemented by CCC, SWRCB) (CZARA § 6217) ■ Sea Partners Campaign (USCG)	■ National Monitoring Program (EPA) ■ Oil Spill and Prevention (USCG) (OPA'90) ■ Water Quality/Quantity (USGS)	■ Oil Spill and Prevention (USCG) (OPA'90)

#### Programs Addressing Priority Problem <u>PESTICIDES</u>

Regulatory	Resource	Finance	/ Voluntary	Edication	Peniling
ray Tie in the contract of	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	LOCAL A	GENCIES		
■ General Plan (CMB, SLO P&B) ■ Local Coastal Plan (LCP) (CMB, SLO P&B) ■ Incident Investigation (CAC, DPR) ■ Statewide Pesticide Program (CAC, DPR) ■ Restricted Materials Permit (CAC) ■ Registration of Pesticide Users (CAC) ■ Pesticide Management Zones (CAC) ■ CEQA - Lead	■ Environmental Monitoring (CAC) ■ Weed Control Program (CAC) ■ Biological Pest Control Program (CAC) ■ Vertebrate Pest Control Program (CAC)		■ Conservation Plan Development (CSL RCD)	Registration of Pesticide Users (CAC) Biological Pest Control Program (CAC) Vertebrate Pest Control Program (CAC)	■ Hazardous Materials Program (CAC) ■ Agricultural Data Collection Program (CAC)
Agency (SLO-P&B)  Underground Storage (SLO HA)  Emergency Response (SLO HA)  Hazardous Waste / Materials Programs (SLO-HA)  Hazardous Waste Management Standards and					

#### Programs Addressing Priority Problem PESTICIDES

Regulatory	Resource 4	Finance	Voluntary	Education	e Planning
Regulations - has MOU with DTSC					
		STATE A	GENCIES		
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC) ■ California Shellfish Sanitation Program (DHS) ⇒ Shellfish Growing Area Certificates ⇒ Shellfish Handling and Marketing Certificates ■ Water Pollution Control (§ 5650) (DF&G) ■ National Pollutant Discharge Elimination System (NPDES) (RWQCB) ■ Department of Defense (DOD)	■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB -approved by NOAA/ EPA) ■ Pesticide Management (SWRCB, RWQCB implements plan; DPR) ■ State Mussel Watch Program (DF&G, SWRCB) ■ TMDL's (RWQCB, US EPA) ■ California Drinking Water Source Assessment and Protection Program (DHS) □ Wellhead Protection Program (DHS) ■ Basin Planning (RWQCB) ■ Nonpoint Source Management Program (RWQCB) ■ Water Quality Assessment (RWQCB,	■ Pest Management Grants (DPR) ■ Partnerships for Environmental Protection (DPR) ■ State Revolving Fund (SWRCB) ■ Clean Water Act § 205(j) Grant Funds (SWRCB, RWQCB) ■ Clean Water Act § 319(h) Grant Funds (SWRCB, RWQCB) ■ Underground Tank Cleanup Fund (RWQCB) ■ Household Hazardous Waste (HHW) Grants (CIWMB)	■ IPM Innovators Award Program (DPR)	■ Epidemiological Investigations (DHS) ■ MOU w/ DPR, to share monitoring information (DPR, DHS) ■ IPM Innovators Outreach Program (DPR) ■ Training (DPR) ■ Grape Workshops (DPR) ■ Model Urban Runoff Program (MURP) (CCC) ■ Pest Management (RWQCB, SWRCB) ■ Soil Resource Protection Program (DOC) □ Watershed 「Management Education Program (UC Ext.) □ Ranch Planning Short Course (UC Ext.)	■ Ca. Pesticide  Management Plan for Water Quality (DPR, CAC, SWRCB/RWQCB)

# Programs Addressing Priority Problem <u>PESTICIDES</u>

, Sign																													
Plenn																				٠									
ion	<del></del>	<del></del>																											
क्र <u>ा</u> त्रक				-																			•						
बार्ज 🥞 🕒			-, -					_	<del>.</del>						_				_					-					
Volunt																													
<b>4</b> 2 30		<del></del>											<u></u>				-							·					
Pinar				•						٠	•																		
rice		g (RWQCB)	Source	NPS)	WRCB)					•	-			-												<u>-</u>			
Resource	SWRCB) Regional	Monitoring (RWQCB)	■ Nonpoint Source	Pollution (NPS)	Program (SWRCB)				•																			-	
, veron				ming	WQCB,		Control	(SHQ)		unt Levels	ng Water	<del></del> -	Waste	ermits		ntion	TSC)			int,	s (DPR)	roduct	in (DPR)	Materials	ting	PR)	icensing	cate	JPR)
प्रसिक्ताहा	Oversight (RWQCB, SWRCB)	■ State Water Quality	Standards (SWRCB)	■ Basin Planning	Program (RWQCB,	SWRCB)	■ Irrigation Control	Programs (DHS)	■ Maximum	Contaminant Levels	for Drinking Water	(DHS)	■ Hazardous Waste	Facilities Permits	(DTSC)	■ Site Mitigation	Program (DTSC)	■ Pesticide	Regulation,	Enforcement,	Authorities (DPR)	■ Pesticide Product	Registration (DPR)	■ Restricted Materials	and Permitting	Program (DPR)	■ Pesticide Licensing	and Certificate	Program (DPR)

## Programs Addressing Priority Problem <u>PESTICIDES</u>

ः । संस्थाधकरं/	Repues:	Joinance	Voluntary	<b>Ddueation</b>	Ja Planning 1881
■ Incident					
Investigation (DPR,		,			
CAC)				·	,
■ Ca. Pesticide					
Management Plan					
for Water Quality -				·	
MAA w/ SWRCB					
(DPR, CAC, SWRCB/RWQCB)					
■ Ground Water					
Protection Program (DPR)					
■ Surface Water					
Protection Program	•				
(DPR)					
⇒Rice Pesticide					
Program					
⇒Dormant Spray			·		
Water Quality	,	•			
Program					
■ Endangered Species			:		
Program (DPR, CAC)				:	
■ Water Rights Permits					
(RWQCB)					
■ 401 WQ Certification				1	
(RWQCB)		FEDERAL	AGENCIES		
■ Pesticide and	■ Water Quality	■ Environmental	■ Coastal Nonpoint		o <u>jūrisa autosta o orošas kili oroš, divisios au</u> d
Groundwater	Assessment (EPA)	Quality Incentives	Pollution Control		
	Environmental	Program (NRCS)	Program (approved by		
Strategy (EPA) (FIFRA)	Contaminants	1 Togram (IVICS)	NOAA / EPA,		

#### Programs Addressing Priority Problem <u>PESTICIDES</u>

Regulatory Resource	Ethance Voluntary	Education	Pkinniga .
Program (USFWS)  Coastal and Marine Geology Program (USGS)  Water Quality/Quantity (USGS)	implemented by CCC, SWRCB)		

## Programs Addressing Priority Problem FRESH WATER FLOW

Regulation	er :: Resource	Linance,	Voluntary	The Education	Planning
. Magnitude		LOCALA		it Martine e disemble de la companya de la companya de la companya de la companya de la companya de la companya d	restriction and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o
■ General Plan (CMB, SLO P&B) ■ LCP (CMB, SLO P&B) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ City Building Code Ordinance (CMB) ■ Permitting (CMB) ■ CEQA Review (CMB) ■ CEQA - Lead Agency (SLO-P&B) ■ Permitting (SLO-P&B) ■ CDP's ⇒ Grading	■ Resource  Management Systems (SLO P&B)  ■ Agricultural Preserve Program (SLO P&B)  □ Coordinated Resource Management and Planning (CRMP) Process (CSL RCD)		■ Planning Area Programs (SLO P&B, SLO Eng.) ⇒SLO Area Plan (Basin Information, Water Conservation Retrofit)		■ Water Management Plan (CMB P&B, PW) ■ County Service Area 9 - Special District (SLO-Eng.) ■ Area Plans (SLO P&B) ■ Wastewater Reclamation Program (CMB PW) ■ Master Water Plan (CMB PW) ■ Strom Drain Master Plan (CMB PW) ■ Tidelands Park Master Plan (CMB H)
⇒ Oraumg		STATE A	GENCIES		
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC, DF&G) ■ Lake or Streambed Alteration Agreement (1603)	■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB - approved by NOAA / EPA) ■ Ocean and Coastal Area Management (DF&G) ■ Fisheries Management (DF&G) ■ Natural Diversity Database (DF&G)	■ Riparian Habitat Conservation Program (DF&G) ■ Clean Water Act § 205 (j) Grant Funds (RWQCB)	□NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G)	■ SCC General Technical Assistance/ Workshops (SCC) ■ Environmental Compliance, Permitting and Review (DWR) ■ Urban Streams Restoration Program (DWR) ■ Water Education	■ Local Coastal Planning (CCC) ■ Stream and Watershed Planning and Restoration Program (DF&G) ■ Agricultural Water Management Planning (DWR)

#### Programs Addressing Priority Problem FRESH WATER FLOW

Regulation	Resource	ignance a co	Voluntary :	(Education)	: Planning
(DF&G)	■ California Ocean			Program (DWR)	·
■ Take of Fish and	Resources Program			■ Land Resources and	
Wildlife (DF&G)	(Resources Agency)			Use Program (DWR)	
■ Basin Planning	■ Morro Bay			■ Agricultural	
Program (RWQCB,	Watershed			Drainage Reduction	
SWRCB)	Demonstration		İ	(DWR)	
■ Dredging Permits	Projects (SCC)	•		■ Agricultural	
(DF&G)	■ Basin Planning			Efficient Water	
■ Threatened and	(RWQCB)			Management	
Endangered Species	■ Nonpoint Source			Practices (DWR)	
(DF&G)	Management			■ Agricultural	
	Program (RWQCB)			Training and	
	■ California			Educational	'
	Stormwater BMP	,	·	Program (DWR)	
	Handbooks (SWRCB)			■ Mobile Irrigation	
	■ Nonpoint Source			Management	
· ·	Pollution (NPS)			Laboratories (DWR)	
	Program (SWRCB)			■ California Irrigation	
	■ Environmental	·		Management	
	Enhancement and			Information System	
	Mitigation (EEM0		·	(CIMIS) (DWR)	·
	Program (Caltrans)			□ Watershed	
	■ Model Water			Management	
	Efficient Landscape			Education Programs	
1	Ordinance (DWR)			(UC Coop. Ext.)	
İ	,			□ Ranch Planning	
				Short Course (UC	
				Coop. Ext.)	
		REDERAL			
			■ Coastal Nonpoint	■ Water	

# Programs Addressing Priority Problem FRESH WATER FLOW

Planning - **						
Popeation	Quality/Quantity	(USGS)				
Y Voluntary	Pollution Control	Program (approved by	NOAA / EPA,	implemented by CCC,	SWRCB)	
Finance in						
Resource						
रिस्ट्रमिस्क्रिंग	A Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp				,	

#### Programs Addressing Priority Problem <u>HABITAT LOSS</u>

. Klegilkiosy	Resource	A Dipance	Voluntary:	Paneiton	Planning
■ General Plan (CMB) ■ L.CP (CMB)	■ Dredging Activity Coordination with	LOCAL A.  Los Osos Creek  Property	GENCIES  ■ Conservation Planning (RCD, NRCS)	■ Waterfront Master Plan / Harbor	■ Waterfront Master Plan (CMB P&B, H)
■ LCP (CMB) ■ Zoning Ordinances (CMB) ■ Subdivision Ordinances (CMB) ■ Permitting (CMB) ■ CEQA Review (CMB)  ■ General Plan (SLO): ⇒Estero Plan ⇒Salinas Area Plan ⇒San Luis Bay Area Plan ⇒San Luis Obispo Area Plan □ Agriculture and Open Space Element ■ LCP ■ Zoning Ordinance ■ Subdivision Ord. ■ Permitting (SLO-P&B) ⇒CDP's ⇒Grading	Coordination with Federal Agencies (CMB H) Elfin Forest Resource Management Plan (SLO-Parks) Chorro Flats Acquisition and Enhancement (RCD, SCC) Los Osos Creek Property Conservation Easement Acquisition and Enhancement Project (RCD with SCC /NRCS) Agricultural Preserve Program (SLO P&B) Coordinated Resource Management and Planning (CRMP) Process (CSL RCD)	Property Conservation Easement Acquisition and Enhancement Project (RCD with SCC /NRCS) Regional Surface Transportation Program (SLOCOG) Transportation Enhancement Activity Program (SLOCOG) Morro Bay State Estuary Management Plan (RCD) Grants (RCD) Capitol Improvements Program (SLO P&B)	Planning (RCD, NRCS)  ■ Planning Area Programs (SLO P&B, SLO Eng.)  ⇒ SLO Area Plan  ⇒ Estero Area Plan  ⇒ San Luis Bay Area Plan (Channel Maintenance, Indian Knob - Open Space Preservation)  ⇒ Salinas River Area Plan (Biological Inventory)  ■ County/Community Based Transfer of Development Credits Programs (TDC) (SLO P&B)	Plan / Harbor Improvements (CMB H)  Harbor Patrol Service (CMB H)	Plan (CMB P&B, H)  ■ Tidelands Park Master Plan (CMB P&B, H)  ■ County Service Area 9 - Special District (SLO-Eng.)  ■ Parks and Recreation Master Plan (SLO-Parks)  ■ Natural Areas Plan (SLO-Parks)  ⇒ Upper El Chorro Regional Park Natural Area ⇒ Elfin Forest Natural Area  ■ County Trails Plan (SLO-Parks)  ■ Conservation Planning (RCD, NRCS)  ■ County/Communit y Based Transfer of Development Credits Programs
⇒Tree Removal ⇒Flood Hazard	■ Morro Bay Watershed				(TDC) (SLO P&B)

# Programs Addressing Priority Problem <u>HABITAT LOSS</u>

, Regulation/	Resource	- Binance	Voluntary :	Palue tion	2.2. Planning (2.4)
⇒Drilling  ■ CEQA - Lead  Agency (SLO-P&B)  ■ Maps (SLO-P&B)  ■ Underground  Storage Tanks (SLO-BA)	Enhancement Plan (MBWEP) CSL RCD)	and company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the co			■ Area Plans (SLO P&B) □ Storm Drain Master Plan (CMB PW)
TO THE REAL PROPERTY OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PE		STATE AC	identile in 19. sa se se dell'illia di la compete di le compete di la compete di la compete di la compete di l La compete di la compete di la compete di la compete di la compete di la compete di la compete di la compete d		
■ Local Coastal Planning (CCC) ■ Coastal Development Permits (CCC) ■ Federal Consistency (CCC) ■ CEQA Review (CCC, DF&G)) ■ Lake or Streambed Alteration Agreement (1603) (DF&G) ■ Water Pollution Control (§ 5650) (DF&G) ■ Take of Fish and Wildlife (DF&G) ■ Threatened and Endangered Species (DF&G) ■ Dredging Permits (DF&G0	■ California Coastal Management Program (CCC) approved by NOAA) ■ Coastal Nonpoint Pollution Control Program (CCC, SWRCB - approved by NOAA / EPA) (CZARA § 6217) ■ Ocean and Coastal Area Management (DF&G) ■ Fisheries Management (DF&G) ■ Natural Diversity Database/Mapping Program (DF&G) ■ Farmland Mapping and Monitoring Program (DOC, Office of Land Conservation)	■ Environmental License Plate Fund (CCC) ■ Coastal Protection "Whale Tail" License Plate (CCC) ■ Riparian Habitat Conservation Program (DF&G) to NRCS in CNG camp SLO) ■ Mass Transportation Program (Caltrans) ■ Urban Streams Restoration Program (DWR) ■ Chorro Flats Acquisition and Enhancement (SCC) (RCD led project) ■ Los Osos Creek Property Conservation Easement	■ Conservation Education Program (CCC) ⇒ Adopt-A-Beach Program ⇒ Coastal Cleanup Day ■ Agricultural Land Stewardship Program (DOC, Office of Land Conservation) ■ Williamson Act Program (DOC, Office of Land Conservation) ■ Natural Community Conservation Plans (NCCPs) (DF&G) ■ NRCS Coordinated Resource Management and Planning (CRMP) Process (DF&G) ■ Volunteer Network	■ Docent Program (DP&R) ■ Pilot Projects (DP&R) ⇒ Project Reach ⇒ Project FamCamp ■ Model Urban Runoff Program (MURP) (CCC) ■ Conservation Education Program (CCC) ■ Project Wild (DF&G) ■ DF&G Docent Program (DF&G) ■ Science Program (OSPR) ■ General Technical Assistance/Worksho ps (SCC) ■ Coast and Ocean (SLC) ■ Soil Resource Protection Program	■ Local Coastal Planning (CCC) ■ Coastal Mapping Program (CCC) ■ Farmland Mapping and Monitoring Program (DOC, Office of Land Conservation) ■ GeoSAR (DOC, Office of Land Conservation) ■ Stream and Watershed Planning and Restoration Program (DF&G) ■ Coastal Protection Review (OSPR) ■ SCC Planning Program (SCC) ■ Environmental Impact Reports (EIRs) (SLC) ■ Design and Local

#### Programs Addressing Priority Problem <u>HABITAT LOSS</u>

, बर्द्रस्थिताहरकाहरू	Resource Resource	Finance	Voluntary	Differron	Planning
Pesticide Product Registration (DPR) Restricted Materials and Permitting Program (DPR) Incident Investigation (DPR) Endangered Species Program (DPR) State Lands Leases (SLC) Timber Harvest Plans (MAA with SWRCB (CDFFP) Sustained Yield Plans (SYP) (CDFFP)	■ Land Habitat  Management (DP&R)  ⇒General Plan -  Morro Bay State  Park; Montana  Del Oro State  Park, Los Osos  Oaks State  Preserve  California Wild  (Caltrans)  Land Resources and  Use Program (DWR)  Field Services Unit  (OSPR)  Resource  Assessment Unit  (OSPR)  Regional  Monitoring (RWQCB)  Morro Bay  Watershed  Demonstration  Projects (SCC, CSL  RCD)  Chorro Flats  Acquisition and  Enhancement (SCC,  CSL RCD)  Los Osos Creek	Acquisition and Enhancement Project (SCC with RCD /NRCS) Fish and Game Preservation Fund (DF&G) Fish and Wildlife Enhancement Act (DF&G) Tabacco Tax and Health Protection Act (DF&G) Endangered Species Tax Check-off Program (DF&G) Environmental Protection Fund (DF&G) Oil Spill Response Trust Fund (OSPR) Science Program (OSPR) Habitat Conservation Fund (SCC) Agricultural land Stewardship Program (DOC)	(OSPR) ■ Pine Pitch Canker Task Force (CDFFP) ■ Morro Bay Watershed Demonstration Projects (SCC, CSL RCD) ■ Biodiversity Council (DF&G)	(DOC)	Programs Program (DLPP) (Caltrans)  Office of State Landscape Architecture (Caltrans)  Integrated Natural Resources Management Plan (INRMP) (CNG)  California Fire Plans (CDFFP)  Project Planning and Design (PPD) (Caltrans))
·	Property				<u> </u>

# Programs Addressing Priority Problem <u>HABITAT LOSS</u>

रिस्वृतिहर्णिकः 🃜	in Resource	Rinnice	. Voluitary	Englishment on	Rianning
	Conservation				
	Easement				
	Acquisition and				·
	Enhancement (SCC)				
'	■ El Moro Elfin			,	
	Forest Acquisition			•	
	and Enhancement				
	(SCC)				
	■ Sweet Springs				
	Marsh Enhancement				
	(SCC)				
	■ Los Osos Greenbelt				
	Plan (SCC)				
	■ Tidelands Park				
,	Improvements (SCC)				
	■ Hazard Removal				
	(SLC)				
	■ Integrated Training				
	Area Management				
	(ITAM) (CNG)				,
	■ Beach Erosion				
	Control Program		•	•	
	(DBW)				
	■ Fire and Resource			•	
	Assessment				
	Program (FRAP)	·			
	(CDFFP)  California Fire Plan				
	(CDFFP)			·	
	Forest Stewardship				
	and Stewardship				
·	and blownadinp	<u></u>			

#### Programs Addressing Priority Problem <u>HABITAT LOSS</u>

Regulatory n	Sa Resource	o la institue	Voluntary	ibilite titon	Planting
	Incentive Program (CDFFP)  Environmental Enhancement and Mitigation (EEM) Program (Caltrans)  Transportation Enhancement Activities (TEA) Program (Caltrans)  Morro Bay Kangaroo Rat Habitat Conservation Plan (SCC)				
■ National Wetlands Program (EPA) (CWA § 404) ■ NEPA Review (EPA) ■ Section 404 Permits (ACOE) (CWA § 404) ■ Section 10 Permits (ACOE) Rivers and Harbor Act 1899) ■ Endangered Species Protection (USFWS, NMFS):  ⇒ Recovery Plans ⇒ Section 7 Consultation	■ National Estuary Program (EPA) (CWA § 320) ■ Dredging Projects (ACOE) ■ Aquatic Ecosystem Restoration Program (ACOE) (WRDA § 206) ■ Project Modifications for Improvement of the Environment Program (ACOE) (WRDA § 1135)	FEDERAL A  Federal Water Pollution Control Program (EPA) (CWA § 106)  Planning Assistance to States Program (ACOE) (WRDA § 22)  Coastal Wetlands Planning, Protection and Restoration Act Grant Funds (USFWS): ⇒ Small Wetlands	■ Wetlands Reserve Program (NRCS) ■ Coastal Zone Management Program (NOAA) - approved California's CZM-implemented by CCC) ■ Stewardship Incentives Program (USFS)	■ Flood Plain Management Services Program (ACOE) ■ Environmental Research (ACOE-WES): ⇒ Aquatic Plant & Assistance Program ⇒ Wetlands Research Program ⇒ Wetland Regulatory Assistance	■ Planning Assistance to States Program (ACOE) (WRDA § 22) ■ Watershed Surveys and Planning (NRCS) ■ Los Padres National Forest Plan (USFS)

# Programs Addressing Priority Problem <u>HABITAT LOSS</u>

⇒Habitat       ■ Beneficial Uses of Conservation       Acquisition Program       Program         Plans       Program (ACOE)       ■ FESA Section 6       Research and
■ Fish and Wildlife Protection (USFWS) (Fish/Wildlife Coordination Act) ■ Dredging and Waterway Modification (USFWS) ■ Environmental Contaminants Program (USFWS) ■ Environmental Contaminants Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Fisheries Resource Program (USFWS) ■ Migratory Bird and Waterfowl Protection (USFWS) ■ Environmental Quality Incentives Program (NRCS, FSA) ■ Wildlife Habitat Incentives Program (NRCS) ■ Conservation Technical Assistance Program ■ National Wetlands Inventory (USFWS) ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS) ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS) ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS) ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS)  ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS)  ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS)  ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS) ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS) ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS) ■ Contaminant Prevention (USFWS) ■ Conservation Technical Assistance Program (USFWS) ■ Contaminant Prevention (USFWS) ■ Contaminant Prevention (USFWS) ■ Contaminant Provention (USFWS) ■ Contaminant Provention (USFWS) ■ Contaminant Provention (USF

#### Programs Addressing Priority Problem <u>HABITAT LOSS</u>

		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	* i Voluntary	Dilugation	Ek I Planning & Lik
११स्याधिकार	dis Resource	Cinance	A Voluntary	rococation	Trianing,
	■ Watershed Surveys				
	and Planning (NRCS)			,	
	■ Coastal Nonpoint			•	
	Pollution Control	•			
	Program (approved by			,	
<u>.</u>	NOAA / EPA,			•	
	implemented by CCC, SWRCB) (CZARA §				
	6217)				
	■ National Forest	·			
	System (USFS)	'		,	
]	⇒ Los Padres			·	
•	National Forest				
1	Plan (USFS)				
	■ Fire Operations and				
ļ	Fire Management				
	Preparedness (USFS)				,
Ì	■ Forest and				
	Rangeland Research				
	(USFS)				
·	Forest Ecosystem				
	Health Monitoring (USFS)				
	■ Forest Ecosystem				<u> </u>
	Restoration and			.*	
·	Maintenance (USFS)	į			
	■ Land Acquisition	į			
	(USFS)				
	■ Coastal and Marine			i	
]	Geology Program				ļ.
	(USGS)				
	■ National Mapping				

# Programs Addressing Priority Problem <u>HABITAT LOSS</u>

ीर्सन्युगीर्धातकः ;	Resource	. Phence	Voluntary 4	Education	Plenning
Progr	ram (USGS) onal Biological				·
1 .	ice (USGS)				

#### MB NEP BASE PROGRAMS ANALYSI, VOL. II

#### 7.2: QUESTIONNAIRE ON PROGRAM EFFECTIVENESS

#### Morro Bay NEP, Base Program Analysis Questionnaire

We recognize that this questionnaire looks long. You do not have to answer every question, though loing so will help the NEP Base Program Analysis and CCMP development.

- 4. Please complete page 1.
- 3. To comment on your agency's regulatory (e.g. permitting or enforcement) programs, go to pages 2-3.
- C. To comment on your agency's resource management (e.g. monitoring or research) programs, go to pages 4-5.
- D. To comment on your agency's financial mechanisms (e.g. grant administration, land acquisition, cost-share programs) and voluntary and public education/technical assistance programs, go to pages 6-7.
- E. To comment on your agency's **planning** (e.g. growth management, land use controls, area plans) programs, go to pages 8-9.
- A. Accuracy/Completeness Please review the attached fact sheet describing your agency's programs/activities that are related to the priority problems in the Morro Bay Watershed. Please fill in the table on the first page of the fact sheet by checking boxes associated with each priority problem for each program/activity.

		-			
			<u>bel</u>	<u>w</u>	
1.	a) Is the information in this inventory accurate?	<b>u</b> '	Yes		No
	b) Is the information in this inventory complete?	<b>"</b>	Yes		No
	(If yes, continue to next questions. If no, please write changes below and	or edi	t dire	ctly	on th
	inventory and return. Add additional pages if necessary.)				

Please check

¹ Priority problems identified as being present in the Morro Bay watershed include those listed below:

> rapid sedimentation

> increased heavy metal/toxins concentrations

> increased bacterial concentrations

> freshwater flow reductions

> increased nutrient concentrations

> adverse impacts to wildlife habitat

#### Morro Bay NEP, Base Program Analysis Questionnaire — REGULATORY ACTIVITIES & PROGRAMS —

В.	For each <u>regulatory</u> program/activity listed in t please respond to the following:	he i	inventory [or additional program(s) not listed],
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below)	2.	Check any of the following problems your programs have experienced? (Explain below)
Ġ	Clear goals, responsibilities or procedures		Unclear goals, responsibilities, or procedures
		-	Compating on conflicting and consum
u	Complementary programs		Competing or conflicting programs
<u> </u>	Good coordination/cooperation with other organizations	a	Difficulties in coordinating/cooperating with other organizations
			·
	Uniqueness of the program	o.	Duplication of effort
П	Sufficient resources		Insufficient resources
_		-	Misamoloni rosouroos
	Support through statutory authority		Lack of statutory authority
	Support of the public		Lack of public support
٠			
_			
	Other		Other

# Morro Bay NEP, Base Program Analysis Questionnaire — REGULATORY ACTIVITIES & PROGRAMS —

<b>}.</b>	W	hat specific actions could improve the effectiveness of the institutional framework?.
		What innovative programs or approaches could serve as a model for future activities?
	•	
		•
		What new efforts should be instituted? Please identify how, when and by who?
`		
		In your opinion, what are the most important actions needed to improve the effectiveness of the Institutional framework?
		2100210010010010010010010010010010010010
		Other?

### Morro Bay NEP, Base Program Analysis Questionnaire — RESOURCE MANAGEMENT ACTIVITIES & PROGRAMS —

C.	For each <u>resource management</u> program/activit not listed], please respond to the following:	ty li	sted in the inventory [or additional program(s)
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below	2.	Check any of the following problems your programs have experienced? (Explain below)
	Clear goals, responsibilities or procedures		Unclear goals, responsibilities, or procedures
<b>Q</b>	Complementary programs	۵	Competing or conflicting programs
	Good coordination/cooperation with other organizations	a	Difficulties in coordinating/cooperating with other organizations
	Uniqueness of the program	a	Duplication of effort
<b>-</b>	Sufficient resources	o	Insufficient resources
	Support through statutory authority	a	Lack of statutory authority
• •	Support of the public	۵	Lack of public support
	Other		Other

### Morro Bay NEP, Base Program Analysis Questionnaire — RESOURCE MANAGEMENT ACTIVITIES & PROGRAMS —

3.	Wl	hat specific actions could improve the effectiveness of the institutional framework?
		What innovative programs or approaches could serve as a model for future activities?
	_	WILL CO. 1 111 1 11 1 10 10 10 11 11 1 1 1 1 1
		What new efforts should be instituted? Please identify how, when and by who?
_		
		In your opinion, what are the most important actions needed to improve the effectiveness of the
		Institutional framework?
		Citib and
•	u	Other?

5

3/24/98

### Morro Bay NEP, Base Program Analysis Questionnaire — FINANCIAL, VOLUNTARY INITIATIVE, & EDUCATION/TECHNICAL ASSISTANCE PROGRAMS —

D.	For each <u>finance mechanism</u> , <u>voluntary initiative</u> , <u>&amp; education/technical assistance</u> program/ activity listed in the inventory [or additional program(s) not listed], please respond to the following:			
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below)	2.	Check any of the following problems your programs have experienced? (Explain below)	
	Clear goals, responsibilities or procedures		Unclear goals, responsibilities, or procedures	
	Complementary programs		Competing or conflicting programs	
۵	Good coordination/cooperation with other organizations		Difficulties in coordinating/cooperating with other organizations	
<u> </u>	Uniqueness of the program		Duplication of effort	
	Sufficient resources		Insufficient resources	
	Support through statutory authority		Lack of statutory authority	
	Support of the public		Lack of public support	
	Other		Other	

# Morro Bay NEP, Base Program Analysis Questionnaire — FINANCIAL, VOLUNTARY INITIATIVE, & EDUCATION/TECHNICAL ASSISTANCE PROGRAMS —

<b>}.</b>	Wl	hat specific actions could improve the effectiveness of the institutional framework?
		What innovative programs or approaches could serve as a model for future activities?
		What new efforts should be instituted? Please identify how, when and by who?
	П	In your opinion, what are the most important actions needed to improve the effectiveness of the
	_	Institutional framework?
	•	
		Other?

### Morro Bay NEP, Base Program Analysis Questionnaire — PLANNING EFFORTS —

L.	please respond to the following:	16 11	iventory for additional program(s) not listed,	
1.	Check any <u>successful</u> aspects of each program/ activity—e.g., what works well; what should be capitalized on in the future? (Explain below)	2.	Check any of the following problems your programs have experienced? (Explain below)	
Ò	Clear goals, responsibilities or procedures		Unclear goals, responsibilities, or procedures	
a	Complementary programs	<u> </u>	Competing or conflicting programs	
	Good coordination/cooperation with other organizations	0	Difficulties in coordinating/cooperating with other organizations	
	OI SMITERATIONS			
	Uniqueness of the program	۵	Duplication of effort	
	Sufficient resources		Insufficient resources	
۵	Support through statutory authority	۵	Lack of statutory authority	
	Support of the public		Lack of public support	
•				
	Other		Other	

### Morro Bay NEP, Base Program Analysis Questionnaire — PLANNING EFFORTS —

<b>3.</b>	W	hat specific actions could improve the effectiveness of the institutional framework?
•		What innovative programs or approaches could serve as a model for future activities?
		•
		What now offerts should be instituted? Please identify how when and by who?
	Ц	What new efforts should be instituted? Please identify how, when and by who?
		In your opinion, what are the most important actions needed to improve the effectiveness of the
		Institutional framework?
٠		
•		Other?
	_	

9 3/24/98

#### MB NEP BASE PROGRAMS ANALYSI, VOL. II

#### 7.3: RESPONSES TO QUESTIONNAIRE

THE ORIGINAL RESPONSES TO THE QUESTIONNAIRE ARE INCLUDED IN THE COPY OF THE BASE PROGRAMS ANALYSIS FOR THE MORRO BAY NATIONAL ESTUARY PROGRAM COMPREHENSIVE CONSERVATION AND MANAGEMENT PLAN, VOLUME II: EFFECTIVENESS ANALYSIS RETAINED AT THE MORRO BAY NATIONAL ESTUARY PROGRAM OFFICE