#	VISION STATEMENT	GOALS	OBJECTIVES _
1	Strategy	A SWAMP Assessment	A specific and updated list of water quality management questions
		Framework that identifies key	A list of assessment questions to elicit monitoring information critical to water
	To work with SWAMP's	assessment questions, the	resource management
	partners and with the	methods by which to answer	An updated SWAMP Assessment Framework document that lists
	California Water Quality	them, the thresholds against	assessment questions, specific and general methods for answering
	Monitoring Council (CWQMC) to identify water quality management questions,	which to evaluate data, and the report cards that convey	assessment questions, assessment thresholds, and reporting strategies
		conditions to decision makers and the public.	
	define and prioritize	Integration of SWAMP with other Water Board programs to continually identify information	A partnership with Water Board Nonpoint-Source (NPS) units
	assessment questions,		A partnership with Water Board TMDL, Assessment, and Standards units
	and answer those		A partnership with Water Board Stormwater units
	questions with data and	needs, provide needed	A partnership with Water Board NPDES, WDR, and 401 Certification and
	information that is	information, and achieve	Wetlands units
	provided to key decision	comparability with SWAMP QA	A partnership with Water Board Irrigated Lands and Agricultural Waiver units
	makers and the public for management of water	and Data Management guidance	A partnership with Water Board Citizen Monitoring Program
	resources.		A partnership with the State Board's Division of Water Rights
	resources.	Coordination with the CWQMC	Coordination with the CWQMC
		and regional monitoring programs	Outreach to Agencies related to CWQMC
		to assess all beneficial uses in all	Coordinated bioassessment in Lake Tahoe basin with Tahoe Reg Planning
		waterbodies	Agency, State of Nevada, and CA Tahoe Conservancy
			Coordination with the Klamath River Water Quality Monitoring Program
			Coordination with the Delta Regional. Monitoring Program
			Coordination with the San Francisco Bay Regional. Monitoring Program
			Coordination with the Sacramento River Watershed Program
			Coordination with the San Joaquin River Monitoring Program
			Coordination with the Central Coast Water Quality Data Synthesis
			Assessment and Management (SAM) Project
			Coordination with the Southern California Bight Regional Monitoring Program
			Coordination with the San Gabriel River Watershed Monitoring Program
			Development of new RMPs to cover additional regions of the State
		A coordinated system of statewide	Statewide Bioaccumulation Oversight Group (BOG) monitoring program to
		and Regional Board SWAMP	assess fish and shellfish consumption safety in streams, lakes, and coastal
		monitoring programs focusing on	waters
		high priority assessments.	Statewide Perennial Streams Assessment monitoring program to assess the
			condition of aquatic ecosystems in streams
			Statewide Reference Condition monitoring program to evaluate benchmarks
			for aquatic ecosystem health
			Statewide Stream Pollution Trends (SPoT) monitoring program to determine

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			whether stream contamination and toxicity are affected by land use change and resource management
			Regional Board Monitoring programs that make use of statewide monitoring networks and Regional designs to address Basin Plan priorities and contribute data to statewide assessments
		A web-based reporting system that efficiently transfers	CWQMC web portals for fish consumption safety and aquatic ecosystem health in streams
		information to decision makers and the public	SWAMP website that posts SWAMP assessment products and draws target audiences
			SWAMP assistance to CEDEN to foster greater input and dissemination of comparable water quality data.
		Effective programmatic and scientific review to document and improve performance	See Element 9, below
		Up-to-date SWAMP Strategy documents	SWAMP Strategy Report updated at least every 10 years
2	Monitoring Objectives- To clearly articulate monitoring objectives as attainable targets for producing the information needed to answer assessment questions at the statewide and Regional levels	A specific and updated list of monitoring objectives that can be incorporated into all statewide, regional and partner programs to guide monitoring designs that produces information to answer assessment questions for all beneficial uses and spatial scales in California	A list of monitoring objectives as currently stated by SWAMP, other Water Board programs, and partner programs
			An updated list of monitoring objectives that aligns previous objectives into a clearly stated list of objectives that can be adopted by all monitoring programs at all scales
			Incorporate the five Clean Water Act Objectives:
			CWA 1. Establish, review, and revise water quality standards
			OWA O D A STATE OF THE STATE OF
			CWA 2. Identify sources and sources
			CWA 3. Identify causes and sources CWA 4. Support the implementation of water management programs
			CWA 5. Evaluate program effectiveness
			A specific subset of monitoring objectives that are incorporated and
			addressed by SWAMP statewide and Regional monitoring programs
			Sharing and alignment of objectives with partner programs
3	Monitoring Design-	Statistically rigorous, peer-	Peer-reviewed monitoring design for Bioaccumulation Oversight Group
		reviewed monitoring designs that	(BOG) statewide program
	To develop scientifically	address statewide monitoring	Peer-reviewed monitoring design for statewide Perennial Streams
	sound monitoring designs	objectives and guide the four	Assessment (PSA)program
	to guide efficient collection of data to meet	SWAMP statewide programs to meet their objectives	Peer-reviewed monitoring design for Reference Condition statewide program
	SWAMP's monitoring	moot their objectives	Peer-reviewed monitoring design for Stream Pollution Trends (SPoT) statewide program
	objectives with available resources, and to	Statistically rigorous, peer- reviewed monitoring designs that	Statewide program

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	coordinate monitoring designs with the	address objectives for monitoring conducted by Regional Board	
	CWQMC and partners.	Water Boards	
		A SWAMP Monitoring Framework	A Monitoring Framework document that identifies common indicators, sites
		to facilitate efficient coordination of SWAMP field and laboratory effort	and schedules to minimize redundant effort and maximize data sharing to
			achieve monitoring objectives of multiple programs with different scales and assessment questions
		A process by which SWAMP engages with the CWQMC and partner programs to optimize their monitoring designs and achieve efficiencies through coordination of indicators, surveys, and analyses	An inventory of monitoring designs from selected partner programs
		Implementation of SWAMP	Statewide Monitoring Programs
		monitoring designs through field	Regional Monitoring Programs
		work, sample collection, and	An assessment of freshwater beaches to determine if they are safe for
		laboratory analysis	swimming
4	Indicators-	A specific and updated list of appropriate monitoring indicators representative of the status of ecological attributes of concern for management of all appropriate beneficial uses	A list of currently identified status indicators from SWAMP and partner
			programs that are representative of ecological attributes of concern
	indicators that appropriately represent		A specific and updated list of status indicators that need to be developed to address ecological attributes of concern that currently are not adequately
			addressed
			Bioassessment Indicator Development
			An updated list of currently available and developing status indicators that
			sufficiently represent ecological and other attributes critical to supporting all beneficial uses in all types of waterbodies
	of impairment. diagnostic indicators capable determining the causes and sources of beneficial use impairment in all waterbody SWAMP capability to assist	A specific and updated list of diagnostic indicators capable of determining the causes and sources of beneficial use impairment in all waterbody types	A list of currently identified diagnostic indicators from SWAMP and partner
			programs
			A specific and updated list of diagnostic indicators that need to be developed
			to address types of impairment that currently are not adequately addressed
			An updated list of currently available and developing diagnostic indicators
			that sufficiently address impairment of all beneficial uses in all types of
			waterbodies
		SWAMP capability to assist in the development of needed indicators	Development of protocols and metrics for invertebrate bioassessment
			Development of protocols and metrics for algae bioassessment
_	A III. A	000000000000000000000000000000000000000	Development of protocols and metrics for diagnostic indicators
5	Quality Assurance- SWAMP data of sufficient quality and with sufficient documentation		Quality Assurance Program Plan (QAPrP) and documentation
		Effective tools and guidance for SWAMP QA	

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	To develop, implement,	to be used in a range of SWAMP	Method Quality Objectives (MQOs)
	and maintain the quality	water quality assessments	QA procedures for SWAMP data management
	assurance tools and		QA procedures for bioassessment
	capabilities needed by		QA procedures for other SWAMP programs
	SWAMP, and shared with		QA procedures for SWAMP marine matrices
	partner programs, to		QAPP/ QA document review
	allow comparable data		Audits
	from many sources to be used in comprehensive		Up-to-date website
	water quality		QA reporting
	assessments.		QA research
	assessments.	Guidance and tools for partner	Coordination of QA within SWAMP and with partner programs
		programs to faciltate data	QA procedures to facilitate comparability
		comparability and allow water	Support for citizen monitoring
		quality assessments based on	SWAMP Help Desk
		combined data sets	Training on QA procedures
6	Data Management-	A data management system that	A SWAMP database cable of storing ambient monitoring data elements
		maintains the integrity of SWAMP	Data comparability within SWAMP and with partner programs
	To manage the flow of	data and metadata, documents	Data exchange within SWAMP and with its partners
	data from initial	data quality from initial	Effective, well-aligned Regional Data Centers (RDCs)
	measurement, through	measurement to final assessment,	Effective methods for extracting data from the SWAMP data base and
	acquisition and storage in the data bases, to data	and efficienly retreives data for SWAMP assessments.	CEDEN in formats useful for data assessment
	output and assessment,	SVVAIVIF assessments.	
	so that accurate		
	information is available in		
	a timely manner.		
7	Data Analysis and	A SWAMP Assessment	Strategy coordination with the CWQMC to identify waterbody types,
	Assessment-	Framework that integrates with the	beneficial uses, and management questions that SWAMP will address
		CWQMC Comprehensive Strategy	A specific and updated list of water quality management questions to be
	To provide a consistent	and identifies key assessment	addressed by SWAMP
	science-based	questions, the methods by which	A list of SWAMP assessment questions to elicit monitoring information critical
	assessment framework	to answer them, the thresholds	to water resource management
	that integrates data from	against which to evaluate data,	An updated SWAMP Assessment Framework document that lists
	SWAMP and other	and the report cards that convey	assessment questions, specific and general methods for answering
	sources to effectively	conditions to decision makers.	assessment questions, assessment thresholds, and reporting strategies
	answer assessment	Implementation of the SWAMP	Guidance and tools to assist in 303(d)/305(b) assessments, consistent with
	questions and inform	Assessment Framework to	the 303(d) listing policy
	water quality management decisions at	interpret data and provide	Guidance and tools to integrate, where appropriate, data from different
	the State and Regional	information to monitoring partners,	indicators and designs to generate efficient statewide assessments
	The Otate and Negional	resource managers, and the	Guidance and tools to assess the extent of impairment in stream reaches

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	levels.	public	Guidance and tools to integrate data from statewide and Regional programs for 303(d)/305(b) and other assessments.
			Specific interpretive assessment products that address priority SWAMP assessment questions
		SWAMP capability to assist in the development of assessment tools	Biological Objectives
8	Reporting To make all SWAMP data available to the public, and to provide reporting products that interpret data from SWAMP and other sources to most effectively answer	A web-based reporting system that effectively transfers	SWAMP website that posts SWAMP assessment products and draws target audiences
		information to decision makers and the public	A CWQMC fish and shellfish consumption safety web portal maintained by SWAMP Bioaccumulation Oversight Group (BOG)
			A CWQMC stream ecosystem health web portal maintained by the SWAMP Healthy Streams Partnership
		Timely and complete water quality reports and lists as required by the CWA, and consistent with current USEPA guidance.	SWAMP participation with the CWA 305(b)/303(d) Integrated Report
	assessment questions		Data available for preparation of the 303(d) list
	and support resource		Data available for the Beach report
	management decisions in a timely and publicly accessible manner.	A SWAMP water quality reporting strategy for the public that uses various formats and media such as brochures, fact sheets, report cards, and oral presentations.	Regular fact sheets summarizing SWAMP elements
		·	Regular fact sheets summarizing state and regional beneficial use status
		Effective communication with agency management	Presentations and briefings to management at the Water Boards and partner agencies
		Technical reports and peer reviewed journal articles resulting from SWAMP activities	Technical reports available within two years of data collection
		Reports for Agency management	Timely water quality information to agency managers and decision makers
		Special Topic Reports	
9	Programmatic Evaluation- To conduct periodic reviews of each aspect of the program to determine its scientific validity, if it is	Regular external programmatic evaluation of SWAMP	Triennial Cal EPA audit as part of the CWQMC evaluation process
			Enhancement of the CWQMC CalEPA audit with additional SWAMP-specific experts
		Regular external scientific review of SWAMP monitoring programs	Scientific review of SWAMP statewide monitoring programs
			Scientific review of SWAMP Regional Board monitoring programs
		Internal programmatic review	Water Board Performance Measures
	being implemented as designed, and how well it		Effective performance measures internal to SWAMP program

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	serves the water quality		
	decision needs of the		
	State.		
10	General Support and	Visibility and enhanced usefulness	
	Infrastructure-	of SWAMP information through	
		dissemination via the CWQMC	
	To provide the specific	web portals	
	support needed to	Outreach and communication with	
	implement a coordinated	resource managers and	
	and comprehensive	stakeholders to align SWAMP	
	monitoring and	priorities and facilitate program	
	assessment program.	support	
		Updated SWAMP Needs	Needs identified for expertise at State and Regional Boards to coordinate
		Assessment	among Board programs
			Needs identified for Water Board and contract staff to conduct monitoring
		A saffaat' a 'a safaa af	Needs identified for aligning partner assessments with SWAMP
		An effective inventory of	Web-based inventories updated by staff from regional monitoring programs
		monitoring activity in California to	Enhanced CWQMC inventory
		identify areas for SWAMP prioritization	
		Personnel support adequate to	
		handle SWAMP contracting and	
		administrative needs	
		Laboratory and field capability	
		adequate to handle current and	
		anticipated monitoring workload	
		Assessment and comparability	SAFIT, etc.
		capabilities	
		Documented history of key	
		SWAMP communications,	
		decisions, budgets, and products	
		to support SWAMP institutional	
		memory	