

# CVM SHCP MONITORING PROGRAM FY2009/2010

April 29, 2009

# Overview



- Where we started
- Where we are
- What we propose for FY 2009/2010

# Where We Started

- Dates
  - ▣ October 2008 – Permit Issued
  - ▣ November 2008 – Monitoring Team Contract Approved
- Scope of Work
  - ▣ Program as identified in approved MSHCP and permits
    - Concepts and science of the monitoring framework
  - ▣ Focus – first three years
    - Start-up phase – data collection, program development
    - FY 2008/2009 – subset of initial tasks
  - ▣ Goal – Full program up and running within 5 years

# Framework

---

- Studies and research during plan preparation and in hiatus before permit approval
- Focus on tracking (spatially and temporally)
  - Ecosystem processes
  - Community composition
  - Population trajectories
  - Impact of stressors on the all of the above

# Invasive Species Control Techniques

- Water Management
- Channel Creation
- Shallow Water Habitat Creation
- Clearing
- Burning
- Trapping
- Pesticide

# Directives from MSHCP and Permit

- Specific tasks and program areas called out
- Markers and due dates, measured from Oct 2008
  - 6 months
  - 1 year
  - 2 years
  - 5 years

# Four Categories of Tasks

- Scientific foundation for program
  - ▣ Data collection and analysis
  - ▣ Methodologies
- Strategies for specific resources
  - ▣ Mainly pupfish and burrowing owl
- Process-related
  - ▣ Coordination, monitoring infrastructure
- Administrative
  - ▣ Work plans and related tasks

# Handout

## CVMSHCP MONITORING PROGRAM OVERVIEW, STATUS REPORT, AND PROPOSED FY 2009/2010 ACTIVITIES

PROGRAM AREA/TASK	DUE DATE (TIME FROM PERMIT ISSUANCE)	RFP TASK #	STATUS AS OF APRIL 29, 2009	PROPOSED FY2009/2010 ACTIVITIES	2009/2010 WORK PLAN PRIORITY
<b>SCIENTIFIC FOUNDATION FOR THE ONGOING PROGRAM</b>					
SPECIES SURVEY METHODOLOGIES (WHERE NEEDED)	1 year	2	Methodologies identified and used for aeolian sand community species. Some work on methodologies for desert wetland species also completed.	Identify other species for which survey methodologies are needed and develop in cooperation with wildlife agencies.	1A
BASELINE SURVEYS OF RESERVE SYSTEM	3 years	3A	Conducting surveys and assessments of aeolian sand communities (6 types) and covered species (8 species). Arthropod surveys near completion; vertebrate surveys and sand compaction assessment in May-June.	Conduct surveys and assessments of desert wetland communities and species; within funding limits, conduct surveys and assessment of alluvial fan and foothill communities and species.	1B
MONITORING PROTOCOLS FOR 8 SPECIES	1 year	8	Final protocols for aeolian sand communities and species and draft protocols for desert wetland communities and species will be completed by June 30.	Complete monitoring protocols for the remaining communities and species.	1A
MESQUITE RESTORATION FEASIBILITY STUDY	1-2 years	12	No work undertaken this FY.	Feasibility study is crucial to future restoration tasks. Recommend that detailed scope of work be prepared and supplemental funding be sought for implementation of study.	2A/2B
COMPREHENSIVE UPDATE OF NATURAL COMMUNITY MAP	5 years	14	No work undertaken this FY.	No work proposed for upcoming FY.	3
CVFTL POP ESTIMATE WITHIN 4 CORE HABITAT AREAS	5 years	4	No work undertaken this FY.	No work proposed for upcoming FY	3
FTHL POP ESIMATE WITHIN THOUSAND PALMS	5 years	4	No work undertaken this FY.	No work proposed for upcoming FY	3

**Priority Key:**

1A – task must be completed in upcoming FY.

1B – task must be initiated or continued in upcoming FY to meet requirement in next FY

1C – ongoing task, part of program implementation

2A – task recommended for initiation in upcoming FY because important to overall program development

2B – task recommended for initiation in upcoming FY, provided supplemental funding is secured.

3 – task not recommended or under consideration for upcoming fiscal year.

# Approach to FY 2009/2010

## What Needs to Be Done

- To move the science and process forward
- To meet a marker in the upcoming or following FY
- Within limits of available funding

## Work Plan Priorities

- 1A – product due by 10/09
- 1B – product due by 10/10
- 1C – ongoing/repeated requirement
- 2A – important to program development
- 2B – important but contingent on funding
- 3 – none of the above, not this year

# Scientific Foundation Tasks

Task	Status as of 4/29/09	Task(s) for FY 2009/2010	WP Priority
SPECIES SURVEY METHODOLOGIES (WHERE NEEDED)	Aeolian sand community species	Identify other species for which survey methodologies are needed and develop in cooperation with wildlife agencies.	1A
BASELINE SURVEYS OF RESERVE SYSTEM	Aeolian sand communities (6 types) and covered species (6 species).	Conduct surveys and assessments of desert wetland communities and species; within funding limits, conduct surveys and assessment of alluvial fan and foothill communities and species.	1B
MONITORING PROTOCOLS FOR 8 SPECIES	Aeolian sand communities and species; draft protocols for desert wetland communities and species	Complete monitoring protocols for the remaining communities and species.	1A
MESQUITE RESTORATION FEASIBILITY STUDY	No work undertaken this FY.	Feasibility study SOW. Seek supplemental funding for implementation of study.	2A/2B

# Strategies for Specific Resources

Task	Status as of 4/29/09	Task(s) for FY 2009/2010	WP Priority
BURROWING OWL INVENTORY – LEVEES, BERMS, DIKES, ETC.	Winter and breeding season inventory; work funded under LAG.	Complete surveys; develop model and monitoring protocol (also LAG)	1A
BUOW MAINTENANCE MANUAL FOR CFC, CVWD, IID	No work undertaken this FY.	Review existing manuals/procedures; combine/expand into one manual or set of procedures.	1B
INTERIM PLAN FOR INVASIVE SPECIES CONTROL FOR PUPFISH HABITAT AT DOS PALMAS/SALT CREEK	Draft plan issued in March; final draft before July.	Refine/test proposed control measures as part of pupfish and habitat monitoring.	2B
PUPFISH/DRAIN MAINTENANCE STUDY PROPOSAL	No work undertaken this FY.	Develop detailed scope of work for study proposal and seek cooperative funding for the study.	2A/2B
IID AVIAN PROTECTION PLAN (POWERLINE IMPACTS)	Coordinated with IID. Detailed recommendations on content of plan to IID prior to June 30.	Assist IID with draft and final version of plan.	1A

# Process-related

Task	Status as of 4/29/09	Task(s) for FY 2009/2010	WP Priority
ASSIST WITH PLAN DATABASE DEVELOPMENT	Provided assistance to CVCC on formulating 2009 LAG project areas.	Initiate spatial information system development in connection with LAG proposal.	2A/2B
REPORT MONITORING RESULTS QUARTERLY & ANNUALLY	First annual report not due until next year. Quarterly reports to begin before June 30.	Complete annual report; prepare quarterly reports.	1C
COORDINATE MONITORING WITH PERMITTEE, OTHER AGENCIES, LAND MANAGER	Attended meetings of CVCC, RMOC; convened meeting with wildlife agencies on pupfish report; will meet with Dos Palmas RMUC in June (or July). Land Manager not under contract yet.	Attend meetings as required; establish monthly meeting/conference call with Land Manager, CVCC staff, and wildlife agencies.	1C
REPRESENT CVCC IN MONITORING, RESPOND TO PUBLIC INQUIRIES	No work undertaken in current FY.	Establish public inquiry/response process.	1C
COORDINATE WITH PBS RESEARCH & TRAIL/ACCESS PROGRAM	No work undertaken in current FY.	Initiate coordination,	1C

# Administrative

Task	Status as of 4/29/09	Task(s) for FY 2009/2010	WP Priority
3-5 YEAR WORK PLAN AND BUDGET; FIRST ANNUAL WORK PLAN	Annual work plan for fiscal year 2008/09 approved in November 2008.	Complete 3-Year Work Plan by October 2009; prepare scope of work for fiscal year 2010/2011.	1C
DATA AVAILABILITY POLICY	No work undertaken in current FY.	Address as part of information system development.	1A
MONITORING GRANT OPPORTUNITIES	UCR to pursue NSF and USDA grants. CVCC considering three LAG projects: Recovery Act and LCRMSCP programs examined for options.	Track proposals submitted last year; identify and pursue opportunities for 2B tasks and other program components.	1C
SURVEY/ASSESS ACQUIRED LANDS	No work undertaken in current FY.	Prepare schedule for surveys/assessments based on acquisition date.	1C

# Allocating Funds

## Assumptions

- \$300,000 - \$350,000 available for next year
  - ▣ Excludes LAG, other
- 1A, 1B, and 1C tasks must be funded
- Set allocation % in case funding amount changes

## Recommended Allocation %

- 60% for 1A and 1B tasks
- 25% for 2A and 2B tasks
- 15% for 1C tasks
- No funding for 3 tasks

# Priority 1A and 1B Tasks: \$180,000 to \$210,000

SPECIES SURVEY METHODOLOGIES (WHERE NEEDED)	Identify other species for which survey methodologies are needed and develop in cooperation with wildlife agencies.	1A	Highest priority for funding; baseline surveys labor intensive.
MONITORING PROTOCOLS FOR 8 SPECIES	Complete monitoring protocols for the remaining communities and species.	1A	
BASELINE SURVEYS OF RESERVE SYSTEM	Conduct surveys and assessments of desert wetland communities and species; within funding limits, conduct surveys and assessment of alluvial fan and foothill communities and species.	1B	
BURROWING OWL INVENTORY – LEVEES, BERMS, DIKES, ETC.	Complete surveys; develop model and monitoring protocol (surveys to be completed prior to Oct 09; model to completed December 2009). Work to be completed	1A	FY 2009/2010 work funded under LAG grant.
DATA AVAILABILITY POLICY	Address as part of information system development.	1A	Cost covered under 2A/2B tasks.
IID AVIAN PROTECTION PLAN (POWERLINE IMPACTS)	Assist IID with draft and final version of plan.	1A	Limited work remaining.
BUOW MAINTENANCE MANUAL FOR CFC, CVWD, IID	Review existing manuals/procedures of CFC, CVWD, and IID; combine/expand into one manual or set of procedures for each agency to incorporate as needed.	1B	Level of effort will be limited.

# Priority 2A and 2B Tasks: \$75,000 to \$87,500

ASSIST WITH PLAN DATABASE DEVELOPMENT	Initiate spatial information system development in connection with LAG proposal.	2A/2B	Potentially included in LAG proposal.
MESQUITE RESTORATION FEASIBILITY STUDY	Feasibility study is crucial to future restoration tasks. Recommend that detailed scope of work be prepared and supplemental funding be sought for implementation of study.	2A/2B	Potentially included in LAG proposal; also subject of UCR grant proposal.
PUPFISH/DRAIN MAINTENANCE STUDY PROPOSAL	Develop detailed scope of work for study proposal and seek cooperative funding for the study.	2A/2B	Potential for involving other agencies in study.
INTERIM PLAN FOR INVASIVE SPECIES CONTROL FOR PUPFISH HABITAT AT DOS PALMAS/SALT CREEK	Refine/test proposed control measures as part of pupfish and habitat monitoring.	2B	Potential for linking work to other projects.

# Priority 1C Tasks: \$45,000 - \$52,500

3-5 YEAR WORK PLAN AND BUDGET; FIRST ANNUAL WORK PLAN	Complete 3-Year Work Plan by October 2009; prepare scope of work for fiscal year 2010/2011.	1C
SURVEY/ASSESS ACQUIRED LANDS	Prepare schedule for surveys/assessments based on acquisition date.	1C
REPORT MONITORING RESULTS QUARTERLY & ANNUALLY	Complete annual report; prepare quarterly reports.	1C
COORDINATE MONITORING WITH PERMITTEE, OTHER AGENCIES, LAND MANAGER	Attend meetings as required; establish monthly meeting/conference call with Land Manager, CVCC staff, and wildlife agencies.	1C
COORDINATE WITH PBS RESEARCH & TRAIL/ACCESS PROGRAM	Initiate coordination,	1C
MONITORING GRANT PORTUNITIES	Track proposals submitted last year; identify and pursue opportunities for 2B tasks and other program components.	1C
Program Administration	Contract administration. Develop process for addressing contingencies.	1C
REPORT MONITORING RESULTS QUARTERLY & ANNUALLY	Complete annual report; prepare quarterly reports.	1C
COORDINATE MONITORING WITH PERMITTEE, OTHER AGENCIES, LAND MANAGER	Attend meetings as required; establish monthly meeting/conference call with Land Manager, CVCC staff, and wildlife agencies.	1C
COORDINATE WITH PBS RESEARCH & TRAIL/ACCESS PROGRAM	Initiate coordination,	1C
REPRESENT CVCC IN MONITORING, RESPOND TO PUBLIC INQUIRIES	Establish public inquiry/response process.	1C

# Priority 3 Tasks: No Work in FY 2009/2010

COMPREHENSIVE UPDATE OF NATURAL COMMUNITY MAP
CVFTL POP ESTIMATE WITHIN 4 CORE HABITAT AREAS
FTHL POP ESIMATE WITHIN THOUSAND PALMS
FINAL PUPFISH MANAGEMENT STRATEGY
BUOW INTERIM MANAGEMENT STRATEGY
INTEGRATE CVWD RIPARIAN RESTORATION PLAN
ASSIST With RMUP PREPARATION
ANNUAL REVIEW OF EFFECTIVENESS OF PUBLIC USE AND TRAILS MANAGEMENT PROGRAM.
ASSIST WITH RMUP PREPARATION