

Update Individual Ownership Adaptive Management Habitat Plans

Project Information

1. **Proposal Title:**

Update Individual Ownership Adaptive Management Habitat Plans

2. **Proposal applicants:**

Steven Chappell, Suisun Resource Conservation District

3. **Corresponding Contact Person:**

Steven Chappell
Suisun Resource Conservation District
2544 Grizzly Island Road Suisun, CA 94585
707 425-9302
srcd@castles.com

4. **Project Keywords:**

Database Management
Geographic information systems (GIS)
Monitoring

5. **Type of project:**

Planning

6. **Does the project involve land acquisition, either in fee or through a conservation easement?**

No

7. **Topic Area:**

Shallow Water, Tidal and Marsh Habitat

8. **Type of applicant:**

State Agency

9. **Location - GIS coordinates:**

Latitude: 38.152

Longitude: -121.998

Datum:

Describe project location using information such as water bodies, river miles, road intersections, landmarks, and size in acres.

Suisun Resource Conservation District: West border is Interstate 680. North border is Highway 12 and the South Pacific Railroad (east to west branch). East border is Shiloh Road. South border is Suisun Bay, Grizzly Bay, and Honker Bay. The amount of private land acreage is approximately 70,700 acres.

10. Location - Ecozone:

2.1 Suisun Bay & Marsh

11. Location - County:

Solano

12. Location - City:

Does your project fall within a city jurisdiction?

No

13. Location - Tribal Lands:

Does your project fall on or adjacent to tribal lands?

No

14. Location - Congressional District:

7

15. Location:

California State Senate District Number: 4

California Assembly District Number: 8

16. How many years of funding are you requesting?

3

17. Requested Funds:

a) Are your overhead rates different depending on whether funds are state or federal?

No

If no, list single overhead rate and total requested funds:

Single Overhead Rate: 18.81

Total Requested Funds: 214943.33

b) Do you have cost share partners already identified?

No

c) Do you have potential cost share partners?

No

d) Are you specifically seeking non-federal cost share funds through this solicitation?

No

If the total non-federal cost share funds requested above does not match the total state funds requested in 17a, please explain the difference:

18. Is this proposal for next-phase funding of an ongoing project funded by CALFED?

No

Have you previously received funding from CALFED for other projects not listed above?

No

19. Is this proposal for next-phase funding of an ongoing project funded by CVPIA?

No

Have you previously received funding from CVPIA for other projects not listed above?

Yes

If yes, identify project number(s), title(s) and CVPIA program.

**Grant Agreement #5-FG-20-13210, Department of
Water Resources Agreement #B-81153Am1 and
#B-80917Am2**

**Suisun Marsh Wetland
Diversion Screening
Project**

CVPIA

20. Is this proposal for next-phase funding of an ongoing project funded by an entity other than CALFED or CVPIA?

No

Please list suggested reviewers for your proposal. (optional)

Jasper Lament Ducks Unlimited (916)852-2000 jlament@ducks.org

Frank Wernette **California Department of Fish and Game** **(209)948-7800** **fwarnett@delta.dfg.ca.gov**

Greg Yarris **California Waterfowl Association** **(916)648-1406** **greg_yarris@calwaterfowl.org**

21. Comments:

Environmental Compliance Checklist

Update Individual Ownership Adaptive Management Habitat Plans

1. CEQA or NEPA Compliance

a) Will this project require compliance with CEQA?

No

b) Will this project require compliance with NEPA?

No

c) If neither CEQA or NEPA compliance is required, please explain why compliance is not required for the actions in this proposal.

this project will have no adverse environmental impacts

2. If the project will require CEQA and/or NEPA compliance, identify the lead agency(ies). If not applicable, put "None".

CEQA Lead Agency:

NEPA Lead Agency (or co-lead):

NEPA Co-Lead Agency (if applicable):

3. Please check which type of CEQA/NEPA documentation is anticipated.

CEQA

-Categorical Exemption

-Negative Declaration or Mitigated Negative Declaration

-EIR

Xnone

NEPA

-Categorical Exclusion

-Environmental Assessment/FONSI

-EIS

Xnone

If you anticipate relying on either the Categorical Exemption or Categorical Exclusion for this project, please specifically identify the exemption and/or exclusion that you believe covers this project.

4. CEQA/NEPA Process

a) Is the CEQA/NEPA process complete?

Not Applicable

b) If the CEQA/NEPA document has been completed, please list document name(s):

5. Environmental Permitting and Approvals (If a permit is not required, leave both Required? and Obtained? check boxes blank.)

LOCAL PERMITS AND APPROVALS

Conditional use permit

Variance

Subdivision Map Act

Grading Permit

General Plan Amendment

Specific Plan Approval

Rezone

Williamson Act Contract Cancellation

Other

STATE PERMITS AND APPROVALS

Scientific Collecting Permit

CESA Compliance: 2081

CESA Compliance: NCCP

1601/03

CWA 401 certification

Coastal Development Permit

Reclamation Board Approval

Notification of DPC or BCDC

Other

FEDERAL PERMITS AND APPROVALS

ESA Compliance Section 7 Consultation

ESA Compliance Section 10 Permit

Rivers and Harbors Act

CWA 404

Other

PERMISSION TO ACCESS PROPERTY

Permission to access city, county or other local agency land.

Agency Name:

Permission to access state land.

Agency Name:

Permission to access federal land.

Agency Name:

Permission to access private land.

Landowner Name: permission will be obtained as necessary, see Feasibility section in proposal

Required

6. Comments.

Land Use Checklist

Update Individual Ownership Adaptive Management Habitat Plans

1. **Does the project involve land acquisition, either in fee or through a conservation easement?**

No

2. **Will the applicant require access across public or private property that the applicant does not own to accomplish the activities in the proposal?**

Yes

3. **Do the actions in the proposal involve physical changes in the land use?**

No

If you answered no to #3, explain what type of actions are involved in the proposal (i.e., research only, planning only).

Biologists will be surveying infrastructure and facilities.

4. **Comments.**

Conflict of Interest Checklist

Update Individual Ownership Adaptive Management Habitat Plans

Please list below the full names and organizations of all individuals in the following categories:

- Applicants listed in the proposal who wrote the proposal, will be performing the tasks listed in the proposal or who will benefit financially if the proposal is funded.
- Subcontractors listed in the proposal who will perform some tasks listed in the proposal and will benefit financially if the proposal is funded.
- Individuals not listed in the proposal who helped with proposal development, for example by reviewing drafts, or by providing critical suggestions or ideas contained within the proposal.

The information provided on this form will be used to select appropriate and unbiased reviewers for your proposal.

Applicant(s):

Steven Chappell, Suisun Resource Conservation District

Subcontractor(s):

Are specific subcontractors identified in this proposal? No

Helped with proposal development:

Are there persons who helped with proposal development?

No

Comments:

Budget Summary

Update Individual Ownership Adaptive Management Habitat Plans

Please provide a detailed budget for each year of requested funds, indicating on the form whether the indirect costs are based on the Federal overhead rate, State overhead rate, or are independent of fund source.

Federal Funds

Year 1												
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
1	questionnaire and access permission	120	1830							1830.0		1830.00
2	landowner interviews	120	1830							1830.0		1830.00
3	data collection	960	14640							14640.0		14640.00
4	data entry and mapping	600	9150							9150.0		9150.00
5	landowner workshop	6	91.50							91.5		91.50
6	newsletter	12	183							183.0		183.00
7	develop management information template	120	1830							1830.0		1830.00
8	learn GIS and Front page software, post templet on Web	360	5490							5490.0		5490.00
		2298	35044.50	0.00	0.00	0.00	0.00	0.00	0.00	35044.50	0.00	35044.50

Year 2												
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
1	questionnaire and access permission	200	3050							3050.0		3050.00
2	landowner interviews	200	3050							3050.0		3050.00
3	data collection	1600	24400							24400.0		24400.00
4	data entry and mapping	1000	15250							15250.0		15250.00
5	landowner workshop	6	91.50							91.5		91.50
6	newsletter	12	183							183.0		183.00
		3018	46024.50	0.00	0.00	0.00	0.00	0.00	0.00	46024.50	0.00	46024.50

Year 3												
Task No.	Task Description	Direct Labor Hours	Salary (per year)	Benefits (per year)	Travel	Supplies & Expendables	Services or Consultants	Equipment	Other Direct Costs	Total Direct Costs	Indirect Costs	Total Cost
1	questionnaire and access permission	240	3660							3660.0		3660.00
2	landowner interviews	240	3660							3660.0		3660.00
3	data collection	1920	29280							29280.0		29280.00
4	data entry and mapping	1200	18300							18300.0		18300.00
5	landowner workshop	6	91.5							91.5		91.50
6	newsletter	12	183							183.0		183.00
		3618	55174.50	0.00	0.00	0.00	0.00	0.00	0.00	55174.50	0.00	55174.50

Grand Total=136243.50

Comments.

Budget Justification

Update Individual Ownership Adaptive Management Habitat Plans

Direct Labor Hours. Provide estimated hours proposed for each individual.

Biologist total hours (all tasks except project supervision): 8934

Salary. Provide estimated rate of compensation proposed for each individual.

Biologist will be paid 15.25 per hour, this includes benefits.

Benefits. Provide the overall benefit rate applicable to each category of employee proposed in the project.

included in hourly rates

Travel. Provide purpose and estimate costs for all non-local travel.

Travel will be required to interview landowners and to collect data in the field. Travel was calculated at 34 cents per mile, total travel costs for the project: \$3060

Supplies & Expendables. Indicate separately the amounts proposed for office, laboratory, computing, and field supplies.

GPS \$400, waders \$200, \$900 other equipment

Services or Consultants. Identify the specific tasks for which these services would be used. Estimate amount of time required and the hourly or daily rate.

none

Equipment. Identify non-expendable personal property having a useful life of more than one (1) year and an acquisition cost of more than \$5,000 per unit. If fabrication of equipment is proposed, list parts and materials required for each, and show costs separately from the other items.

none

Project Management. Describe the specific costs associated with insuring accomplishment of a specific project, such as inspection of work in progress, validation of costs, report preparation, giving presentations, response to project specific questions and necessary costs directly associated with specific project oversight.

Project supervisor will be paid 19.35 per hour (this rate includes benefits). Total cost for project: \$1560

Other Direct Costs. Provide any other direct costs not already covered.

Cell phone total for project: \$1080 Single audit total for project: \$6000

Indirect Costs. Explain what is encompassed in the overhead rate (indirect costs). Overhead should include costs associated with general office requirements such as rent, phones, furniture, general office staff, etc., generally distributed by a predetermined percentage (or surcharge) of specific costs.

Overhead is calculated as 18.81% of total. Allocation of indirect costs was done by using Circular No. A-87 for federal funds.

Executive Summary

Update Individual Ownership Adaptive Management Habitat Plans

Update Individual Ownership Adaptive Management Habitat Plans The Suisun Marsh is the largest remaining coastal wetland in California. The Suisun Resource Conservation District was formed in the 1960s with the purpose of protecting and enhancing the plant and wildlife communities in the Suisun Marsh. SRCD, in cooperation with the Soil Conservation Service, the California Department of Fish and Game (DFG), and Bay Conservation and Development Commission, developed 158 Individual Ownership Management Plans in 1981 and 1982 for the privately owned lands in Suisun Marsh. The Plans include maps, soil information, size and location of intake/drainage structures, location and sizes of ditches, and recommended water management/vegetation management schemes. Laws and regulations affecting the Marsh have changed since the original management plans were developed. In response to these changes, an up-to-date template for wetland management was written by SRCD in 1998. The template includes multiple water management strategies aimed to achieve greater species diversity and to improve habitat for listed species while also complying with restrictions and criteria set by regulatory agencies. Water management capabilities in the Suisun Marsh have also changed since the original management plans were developed. The last extensive innovatory on the Marsh infrastructure was completed in 1978. Since then, water control structures have been altered in size and location, pumps have been installed and pond locations may have been changed. The vegetation present in each individual ownership is likely to have changed since the early 1980s. SRCD proposes a research project for the purpose of updating the individual management plans so that landowners will be able to manage their ponds more effectively. Marsh infrastructure will be updated by collecting data in the field and working with landowners. Vegetative composition will be updated by utilizing digital data provided by the Department of Water Resources and DFG. We propose to place the individual management plans for each parcel on compact disc. Each CD will be maintained as a living document, meaning that the plans will be revised periodically to incorporate up-to-date information as property improvement occurs. The template will also be a living document that will be posted on the Web so that it can be accessed by landowners and the public.

Proposal

Suisun Resource Conservation District

Update Individual Ownership Adaptive Management Habitat Plans

Steven Chappell, Suisun Resource Conservation District

Update Individual Ownership Adaptive Management Habitat Plans

A. Project Description

1. Problem:

The Suisun Marsh is the largest remaining coastal wetland in California. It is located adjacent to Suisun and Grizzly bays in the Sacramento-San Joaquin River Estuary near the cities of Fairfield and Suisun, California. The Suisun Resource Conservation District (SRCD) was formed in the 1960's with the purpose of protecting and enhancing the plant and wildlife communities in the Suisun Marsh. SRCD, in cooperation with the Soil Conservation Service, the California Department of Fish and Game (DFG), and Bay Conservation and Development Commission (BCDC), developed 158 Individual Ownership Management Plans in 1981 and 1982 for the privately owned lands in Suisun Marsh. The Plans include maps, soil information, size and locations of intake/drainage structures, location and sizes of ditches, and recommended water management/vegetation management schemes.

Laws and regulations affecting the Marsh have changed since the original management plans were developed. In response to these changes, an up-to-date template for wetland management was written by SRCD in 1998. The template includes multiple water management strategies aimed to achieve greater species diversity and to improve habitat for listed species while also complying with restrictions and criteria set by regulatory agencies.

Water management capabilities in the Suisun Marsh have also changed since the original management plans were developed. The last extensive innovatory on the Marsh infrastructure was completed in 1978. Since then, water control structures have been altered in size and location, pumps have been installed and pond locations may have been changed. The vegetation present in each individual ownership is likely to have changed since the early 1980's.

SRCD proposes a research project for the purpose of updating the individual management plans so that landowners will be able to manage their ponds more effectively. Marsh infrastructure will be updated by collecting data in the field and working with landowners. Vegetative composition will be updated by utilizing digital data provided by the Department of Water Resources and DFG. Currently, the individual management plans are contained in file boxes where information is stored on typewritten paper, photographs, and maps. We propose to place the individual management plans for each parcel on compact disc. Each CD will be maintained as a "living document", meaning that the plans will be revised periodically to incorporate up-to-date information as property improvement occurs. The template will also be a "living document" that will be posted on the Web so that it can be accessed by landowners and the public.

2. Justification:

The vitality of Suisun Marsh wetland habitats greatly depend on water quality, soil salinity, and effective water management. Salinity of applied water and length of soil submergence will determine the growth of different wildlife food and nesting plants (Rollins 1981). In the Suisun Marsh fresh and tidal waters

are provided by directing water through water control structures into ditches and on to properties where ponds are flooded and drained in a manner that provides a diversity of wetland habitats for many species of waterbirds and other wildlife.

In the management plan template, specific water management schedules are outlined that can be used to manage for plants that wildlife species depend on, while also managing to prevent the take of listed fish species. Some water management examples include the late drawdown schedule that provides waterfowl food plants and brood rearing habitat and the Pickleweed Schedule that provides habitat for the salt marsh harvest mouse. The water depth, salinity, and flooding duration can be managed for the growth of different waterfowl food plants such as Watergrass (*Echinochloa crusgalli*) and Fat Hen (*Atriplex triangularis*).

SRCD is the only appropriate agency to conduct the updates because we work with the landowners on a daily basis, we are familiar with most of the property, and we have the trust of the landowners with respect to access to their property.

It is imperative that information about the infrastructure of the marsh be updated so that SRCD can evaluate current management capabilities and then can identify needed improvement to insure effective management of seasonal wetland habitats. SRCD will be updating the individual management plans for about 140 private properties in the Suisun Marsh. There is 58,000 acres of wetlands in Suisun Marsh. Of this, over 43,700 acres (75%) is private land that requires updated individual management plans. This research project is adaptive in that any new information obtained will be updated, and management can be altered accordingly.

3. Approach:

SRCD staff biologists will mail the old infrastructure maps and a list of questions to each landowner so they can indicate changes in infrastructure and outline current management strategies. The biologists will then proof the map and discuss the questionnaire with each landowner. When infrastructure information is verified in the field, the information to be recorded will include the location and dimensions of levees, pumps, ditches, and water control structures. The elevation, structural composition, and flow direction will also be recorded for water control structures.

Infrastructure data, vegetation maps, soil maps, and any other information will be combined onto a single CD for each property. These CDs will be made available at the SRCD office for landowners to view, print, or to copy for their own information and use. The template will be posted on the web so that it can be accessed by landowners and the public.

4. Feasibility:

In 1981 and 1982 the individual management plans were developed and certified by DFG and BCDC. Updating these plans is a goal that can successfully be achieved with appropriate funding. The update will take place over a three year period. During the rainy time of the year and when clubs are flooded up,

information will be placed into databases and the maps will be placed on to the separate CD's. Field data will be collected in spring and summer when the weather improves and the clubs are accessible, so that the infrastructure can be assessed.

Data collection in the field will be done on private property. According to the Suisun Marsh Protection Plan of 1977 (Sec.2, 9962), "The district shall issue regulations requiring compliance with any water management plan or program for privately owned lands within the primary management area...". BCDC has expressed their support in our effort to update the plans.

SRCD is the most appropriate agency to conduct the updates because we work with the landowners on a daily basis, we are familiar with most of the properties, we have the trust of the landowners with respect to access to their property, and we have all the old management plans on file in the SRCD office. Therefore, we foresee enthusiastic acceptance to updating the plans by SRCD on the part of landowners. We will be asking landowners to enroll for the update at SRCD sponsored spring and fall workshops so that they will participate when it is most convenient. In the questionnaires (as described above) we will include property access permission forms for landowner signature. The fieldwork to be conducted will not require environmental permits or agreements.

5. Performance Measures:

Benchmarks of project success will be assessed with performance measures. Performance measures to be included in the project include Project Activities, Project Outputs, and Project Outcomes. The baseline for all of the following metrics will be zero because no individual management plans have been updated since they were originally developed. The target for each metric is discussed in the following text.

Project Activities for data collection may include working with landowners and collecting data on infrastructure. Metrics for working with landowners include the number of questionnaires filled out, number of maps reviewed, and number of landowners met with to discuss the plans. The target for each of these metrics is approximately 140 individually owned properties (there are about 140 properties in the primary management area). Metrics for the infrastructure include the number of levees, ditches, pumps, and water control structures surveyed. The target for this metric is unknown.

Project Activities for data management includes data entry and manipulation. Metrics include the number of infrastructure maps created and placed on each CD, the number of soil maps placed on each CD, and the number of vegetation maps placed on each CD. The target for each of these metrics is approximately 140 (there are about 140 properties in the primary management area and there will be one CD for each property).

Project Output metrics include the updated plans (target about 140), presentations to update results and progress, and the management template posted on the Web. We will be presenting updates at biannual landowner workshops, thus the target for this metric is 6 presentations.

Project Outcomes include an increased base of knowledge for landowners by providing them with the updated plans and an increased base of knowledge for decision-makers, researchers, and the public due to the posting of the template on the Web.

6. Data Handling and Storage:

All information for each club will be stored on a CD. Maps will be stored in a format compatible with ArcView. Text will be stored in a format compatible with Microsoft Word. The CDs can be viewed by landowners in the SRCD office or information can be printed from these files. Landowners will also be able to make a copy of the CD. The template will be posted on the web.

According to the Suisun Marsh Protection Plan of 1977 (Sec.2, 9962), each plan must be approved and certified by the San Francisco Bay Conservation and Development Commission (BCDC). The certification process will include a public hearing and BCDC will hold these plans as public documents after they are certified. The California Department of Fish and Game will also approve the updated management plans.

7. Expected products and outcomes:

We propose to place the individual management plans for each parcel on its own CD. Each CD will be maintained as a “living document”, meaning that the plans will be revised periodically to incorporate up-to-date information as it becomes available. The template will also be a “living document” that will be posted on the Web so that it can be accessed by landowners and the public. We will be presenting updates at biannual landowner workshops. The template and plans will increase base of knowledge for decision-makers, researchers, and the public.

8. Work Schedule:

The update will take place over a three period. There are approximately 140 plans that need to be updated. We expect that implementation of the project will need more work in the first year than in the following years. For this reason, we propose to do 30 plans in the first year, 50 plans in the second year, and 60 plans in the third year.

During the rainy time of the year and when clubs are flooded up, information will be placed into databases and the maps will be placed on to the separate CD's. Field data will be collected when the weather improves and the clubs are drained, so that the infrastructure can be assessed. March through June questionnaires will be sent out (Task 1). July through September landowners will be interviewed and infrastructure data will be collected (Tasks 2 and 3). October through February software will be learned, the template will be posted on the Web, data entry will occur, maps will be created, and all information will be placed on CDs (Tasks 4, 7, 8). Presentations at the landowner workshop occur in

the spring and fall (Task 5). Updates will be provided in the quarterly published newsletter (Task 6).

The tasks for updating each Individual Management Plan are considered to be inseparable. However, if only a portion of the project were to be funded, the number of plans to be updated could be reduced. CalFed will be billed as the plans are completed.

B. Applicability to CALFED ERP and Science Program Goals and Implementation Plan and CVPIA Priorities

1. Relation of project to PSP, ERP, Science Program, and CVPIA Priorities:

This project satisfies some of the goals and priorities included in the above programs. This project satisfies part of the PSP Bay Region Goal 1: “Update existing outdated Individual Ownership Management Plans to provide landowners with multiple management strategies to protect, conserve, and sustain brackish marsh diversity, waterfowl, and wildlife values within the managed wetlands.”

Once the template is placed on the web, landowners, scientists, and the public will have access to information. The project satisfies “The long-term goal of the CALFED Science Program to progressively build a body of knowledge that will continually improve the effectiveness of restoration actions”(Draft Stage 1 Implementation Plan, Page 13).

The template and the individual management plans will educate landowners and other land managers on how to use multiple water management strategies to improve wetland habitat. The project satisfies ERP Programmatic Action 1A and 1B (Volume II, Target 1, for Suisun Marsh/North San Francisco Bay Ecological Management Zone): improve management of up to 26,000 acres of degraded seasonal wetland habitat and 32,000 acres of existing seasonal wetland habitat in the Suisun Bay and Marsh. The proposed project also contributes to the protection of the San Francisco Bay and Sacramento-San Joaquin Delta Estuary as described by the CVPIA goals.

Water management can be used to achieve greater species diversity while also improving habitat for harvestable species. This links to ERP Goal 3 that states “...the importance of maintaining certain species in numbers large enough to sustain harvest by humans.” and ERP Goal 4 that states “Many direct benefits arise from protecting a wide array of habitats, including...the production of economically important wild species (such as salmon and waterfowl)”

2. Relation to Other Ecosystem Restoration Projects:

There is no relation to past projects. Upon completion of this project, Phase 2 funding may be requested if major revisions to water management recommendations is warranted.

3. Requests for Next-Phase Funding:

This proposal is not the next-phase for an existing ecosystem restoration project.

4. Previous CALFED Program or CVPIA funding:

SRCD has previously received CVPIA funding for fish screens within the district. The project was titled the Suisun Marsh Wetland Diversion Screening Project. There was 5 fish screens successfully installed during Phase 1 (Grant Agreement #5-FG-20-13210) and 7 screens successfully installed during Phase 2 (Department of Water Resources Agreement B-81153Am1 and B-80917Am2).

5. System-Wide Ecosystem Benefits:

Using multiple water management strategies will improve wetland habitat for shorebirds, waterfowl, and neo-tropical migrants along the Pacific Flyway. This complements the goals of several conservation programs including the Central Valley Habitat Joint Venture, the North American Wetlands Conservation Act, and the North American Waterfowl Management Plan.

6. Additional Information for Proposals Containing Land Acquisition

This project will not include land acquisition.

C. Qualifications

Staff included in implementing the project include Steven Chappell, Bruce Wickland, Kristin Bruce and Craig Haffner.

Steven Chappell will be involved with the management of the project. He is the Executive Director of SRCD. He has a Bachelors of Science Degree in Biological Science and a minor in chemistry. He has participated in numerous Suisun Marsh planning and regulatory programs including Baylands Ecosystem Goals Project, Suisun Marsh Charter Process, North American Wetlands Conservation Act, the Suisun Marsh Red/Acid Water Study, and the Suisun Marsh Waterfowl Feeding Ecology Study.

Bruce Wickland will be involved in the management of the project. He has been employed since 1999 by the Suisun Resource Conservation district, currently serving as District Biologist. He graduated from Humboldt State University with a Bachelor of Science degree in Wildlife Management. He worked eight years for the Department of Fish and Game in the Fisheries and Wildlife Management branches, including three years as a manager of all the satellite properties of the Grizzly Island Wildlife Area in the Suisun Marsh. He also worked six years for Ducks Unlimited as Regional Director and in that capacity was responsible managing the fundraising activities in an eight-county region that raised \$1 million per year. Owned and managed a restaurant business prior to returning to the field of biology.

Kristin Bruce will be involved in the technical aspects of the project. She is a biologist at Suisun Resource Conservation District. Kristin has a Bachelors of Science degree in Wildlife Management. Kristin has experience collecting data in the field for organizations such as SRCD, The Wildlife Conservation Society, and California Department of Fish and Game. She has experience with finding her way around the Marsh and has met several of the landowners and their caretakers. She also has experience with database management and GIS software.

Craig Haffner will be involved in the technical aspects of the project. He is a biologist at Suisun Resource Conservation District. He has a Bachelors of Science Degree in Wildlife Management. He has two years of experience working in the Suisun

Marsh. Mr. Haffner has worked in cooperation with and for California Fish and Game and California Waterfowl Association in the Suisun Marsh. Mr. Haffner's activities at SRCD include proposal writing, wildlife surveys, administering cost-share programs with local landowners, and compliance with regulatory issues associated with conducting activities in the Suisun Marsh wetland area.

We do not expect to have any problems with time availability. SRCD staff does not own any property in the Suisun Marsh, thus we do not expect to have any conflicts of interest.

D. Cost

There will be not cost-sharing for this project.

E. Local Involvement

At spring and fall SRCD workshops, landowners will be informed about the project and will be asked to participate in the surveys for the upcoming year. The SRCD newsletter, Land of the West Wind, will be used to promote the project and provide updates. We do not foresee any reluctance to updating the plans by landowners, and have received many requests from landowners to begin updating management plans immediately.

F. Compliance with Standard Terms and Conditions:

SRCD agrees to comply with the standard State and Federal contract terms.

G. Literature Cited

Rollins, G.L. 1981. A Guide to Waterfowl Habitat Management in Suisun Marsh. Department of Fish and Game.

