

**EXECUTIVE COMMITTEE MEETING**

**RUSSIAN RIVER WATERSHED  
MANAGEMENT & PROTECTION STUDY**

Date: February 8, 2001  
Time: 10:00 a.m.  
Location: Board Conference Room  
Sonoma County Administration Office  
575 Administration Dr. 101A, Santa Rosa  
(707) 565-2241

**AGENDA**

- |       |  |
|-------|--|
| 10:00 | Introductions  |
| 10:05 | Proposed changes to the agenda   |
| 10:10 | On-going RRWC tasks<br>Linda Curry, RRWC coordinator   |
| 10:20 | RRWC expectations<br>RRWC Executive Committee Members<br>Economic Caucus, Bob Anderson<br>Environmental Caucus, Tim Derry<br>Public Caucus, Jerome Dix                                     |
| 10:45 | State and Corps support of the Study<br>Secretary Mary Nichols<br>California Department of Fish and Game<br>Regional Water Quality Control Board<br>Colonel Timothy O'Rourke               |
| 10:55 | Sonoma and Mendocino Counties support of the Study<br>Supervisor Mike Reilly<br>Supervisor Richard Shoemaker   |
| 11:10 | Evaluate scope, cost and schedule changes to the Project<br>Study Plan, 1) Current PSP 2) Alternatives to PSP<br>Roger Golden, USACE Project Manager<br>Cathy Blier, SRA and Bob Coey, DFG |
| 11:40 | Future funding opportunities   |
| 12:00 | Lunch  |
| 1:30  | Field Trip   |

**EXECUTIVE COMMITTEE MEETING**  
**RUSSIAN RIVER WATERSHED**  
**MANAGEMENT & PROTECTION STUDY**

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EXHIBIT A

**RUSSIAN RIVER WATERSHED  
COUNCIL**

**MISSION STATEMENT:**

*The purpose of the Russian River Watershed Council is to protect, restore and enhance the biological health of the Russian River and its watershed through a community based process, which facilitates communication and collaboration among all interested parties.*

*Our primary goals are:*

- 1) To ensure the recovery of the Russian River and its watershed to a condition such that the native wild anadromous fishery recovers to a healthy and sustainable level;*
- 2) To ensure a strong, healthy and diverse economy in the Russian River region and;*
- 3) To promote stewardship of the Russian River by developing an informed and engaged community.*

**EXHIBIT B**  
**Russian River Watershed Council**  
**Survey Results**  
**January 13, 2001**

47 members returned survey information

Those 47 members logged:

- 536 full council meetings or 2144 hours
- 169 steering committee meetings or 338 hours
- 22 budget meetings or 44 hours
- 29 public education and outreach meetings or 58 hours
- 24 salmonid restoration meetings or 48 hours
- 8 water supply/water quality meetings or 16 hours
- 17 dam operations meetings or 34 hours
- 44 WIAM meetings or 88 hours
- 16 rules of operation meetings or 32 hours
- 2 trips to Sacramento
- 1 tributary cleanup meeting
- 83 public caucus meetings
- 20 economic caucus meetings
- 16 environmental caucus meetings
- 2 Mendocino caucus meetings

Modest estimates for travel expense include between 1736 hours of driving to 2604 hours of driving to attend meetings. At least one individual logged over 90 hours of driving times alone.

Several individuals expressed a good deal of reading time associated with their council participation.

If you have not returned a survey with your participation, please contact Linda Curry (526-7865 or [watershedrrwc@hotmail.com](mailto:watershedrrwc@hotmail.com)) to get your information included.



March 29, 1999

RRWC adopts final language of mission statement.

The purpose of the Russian River Watershed Council is to protect, restore and enhance the biological health of the Russian River and its watershed through a community based process, which facilitates communication and collaboration among all interested parties. Our primary goals are:

- 1) To ensure the recovery of the Russian River and its watershed to a condition such that the native wild anadromous fishery recovers to a healthy and sustainable level;
- 2) To ensure a strong, healthy and diverse economy in the Russian River region and;
- 3) To promote stewardship of the Russian River by developing an informed and engaged community.

September 11, 1999

RRWC endorse the formation of the MOU/Budget workgroup and the Rules of Operations workgroup to ensure RRWC direct involvement in guiding funding allocation and to develop the structure for RRWC operations.

November 20, 1999

RRWC membership was finalized. The RRWC has 77 members with 57 voting members and 20 agencies as advisory members. Balance between county representation and caucus affiliation is a goal of the voting membership. The 57 voting members represent eighteen members from each caucus; economic, environmental, and public, with one vote from each Resource Conservation District (3) in the Russian River Watershed. To pass a motion at RRWC meetings, 60% approval by voting members is required. 30 members constitute a quorum at RRWC meetings.

RRWC approve budget developed by the RRWC MOU/Budget workgroup. Budget based on funding identified in the PSP. Budget includes funding for Department of Fish and Game biological assessment program for Russian River tributaries.

- May 13, 2000 RRWC MOU/Budget workgroup develop and execute a Memorandum of Understanding between State Resources Agency and the RRWC to ensure that the mission and goals and objectives of the RRWC are adhered to and that the RRWC is directly involved with development of this community based watershed effort.
- The Watershed Information, Assessment, and Monitoring workgroup scope of work for Russian River Interactive Information System (RRIIS) approved.
- July 8, 2000 RRWC allocates \$25,000 to assist Department of Fish and Game to finish mapping tributaries with UC Extension at Hopland.
- Steering Committee members developed and the RRWC adopted proposal for hiring and funded coordinator position. Mendocino County Water Agency acts as the contractor for RRWC to solicit proposals through the Mendocino County Human Resources.
- October 2000 Hiring Committee composed of RRWC Steering Committee members interview applicants for RRWC coordinator position.
- Scope of work for Russian River Interactive Information System is published on Commerce Business Daily to solicit work proposals.
- November 18, 2000 RRWC approve \$10,000 of FY2001 budget to support the development of the Willow Creek watershed management plan and educational program with Department of Fish and Game, State Department of Parks and Recreations, Stewards of Slavianka, and RRWC.
- Final Rules of Operation approved and adopted by the RRWC.
- The full council ratifies RRWC Coordinator, Linda Curry.
- December 2000 RRWC surveys membership to gauge the level of volunteer and agency resources being dedicated to the RRWC. 47 members respond with comments and estimates of their time. Over 2000 meeting hours and almost 3000 hours of driving time were tallied.

## **WORKGROUPS ACCOMPLISHMENTS**

### **MOU/Budget workgroup**

Formalized MOU agreement between State and RRWC to support RRWC involvement. Develop RRWC budget and provided guidance to RRWC on budget funding mechanisms of state and federal agencies. Continues to monitor spending requests from workgroups and the RRWC at large.

### **Salmonid Restoration workgroup**

Spent time with fisheries field experts. Developed proposal and received endorsement of RRWC in support of a watershed management plan and education program for the Willow Creek watershed with \$10,000 of RRWC funds as matching funding for the collaborative process. Proposal requesting funds from Sonoma County Prop. 13 funding.

### **Watershed Information Assessment and Monitoring workgroup**

Developed scope of work and proposal rating criteria for Russian River Interactive Information System (RRIIS). Scope of work listed on the Commerce Business Daily. Contractor selection for RRIIS to be completed by April 2001.

### **Public Education and Outreach workgroup**

Facilitating a Water Rights Law Seminar scheduled for March 31, 2001. Developed a brochure to be used at the Seminar to explain the RRWC's membership and mission to attract more participants. Developed a draft directory of organizations and individuals involved with Russian River resources.

### **Rules of Operations workgroup**

Formalized Rules of Operation for RRWC with explicit mission statement, and rules for membership, meetings, work groups and amendments to the rules. Brought forth the first adaptation of the rules of operation to serve as template for bylaws of incorporation as 501.3(c).

### **Dam Operations workgroup**

Reviewed proposal for fish bypass around Coyote Dam. Reviewing Section 7 reports on dam impacts from Sonoma County Water Agency.

### **Tributary Cleanup workgroup**

Working with established organizations to promote river cleanup days coordinated with both counties to occur at the end of the tourist season and before the first real storms.

### **Water Supply/Water Quantity workgroup**

Reviewing water supply issues for Sonoma and Mendocino Counties.

## EXHIBIT E

### **RUSSIAN RIVER WATERSHED COUNCIL FINAL RULES OF OPERATION November 18, 2000**

#### **ARTICLE I. PURPOSE**

The purpose and mission of the Russian River Watershed Council is to protect, restore, and enhance the biological health of the Russian River and its watershed through a community-based process which facilitates communication and collaboration among all interested parties.

The Russian River Watershed Council's primary goals are:

- 1) To ensure the recovery of the Russian River and its watershed to a condition such that the native wild anadromous fishery recovers to healthy and sustainable level;
- 2) To ensure a strong, healthy and diverse economy in the Russian River region; and
- 3) To promote stewardship of the Russian River and its watershed by developing an informed and engaged citizenry.

#### **ARTICLE II. RUSSIAN RIVER WATERSHED COUNCIL (RRWC) MEMBERSHIP**

Section 1: The RRWC is comprised of four (4) caucus groups that support public involvement. The primary function of each RRWC caucus is to select members to represent that caucus on the RRWC. Membership shall be open to all persons who wish to participate and who meet the qualification set forth by the caucus that they wish to join.

Section 2: The RRWC is committed to a policy of fair representation, which does not discriminate on the basis of race, physical handicap, sex, color, religion, sexual orientation, or age.

Section 3: The RRWC name or insignia shall not be used as an endorsement and/or as a representation without the consent of the RRWC.

#### **ARTICLE III. RRWC MEMBERS**

Section 1: The number of voting members of the seated RRWC will be 57, with 3 representative caucuses; 18 members from the economic caucus; 18 members from the environmental caucus; 18 members from the public caucus, plus one representative from each Resource Conservation Districts in the Russian River Watershed. In addition, the RRWC will include 20 ex-officio non-voting agency members.

- The economic caucus is comprised of members representing businesses, business and labor organizations, and landowner organizations.

- The environmental caucus is comprised of members who represent environment organizations.
- The public caucus is comprised of persons who are not aligned with either the economic or environmental caucuses.
- The agencies caucus is advisory to the RRWC and is comprised of Federal, State and local governmental agencies to provide technical assistance and support for the RRWC.

Section 2: The RRWC caucus memberships are responsible for selecting alternates to represent their interests. An alternate designated by a voting member or organization will fulfill the responsibilities of the voting member if the voting member is not available to serve. The caucuses are responsible for designating qualified alternates for absent voting members if the designated member is absent at RRWC meetings.

Section 3: The RRWC will strive to achieve a geographic balance of Sonoma and Mendocino Counties.

Section 4: Election or appointment of new RRWC members or election or appointment of current RRWC members will be nominated by the caucus they represent. New members or reappointment of existing members will be ratified by a vote of the RRWC at the first general meeting of the new year or as necessary to fill a vacancy.

- Any member of the voting RRWC may be replaced by a 75% vote of the RRWC membership for cause, such as non-attendance, disruptive behavior, etc).

Section 5: The duties of the voting members of the RRWC will include attending RRWC meetings, to serve and participate in one or more workgroups and to work to fulfill the goals of the mission statement.

Section 6: The voting members of the economic and environmental caucus must have on file a letter that states authorization from the organization they represent. The Public caucus must have on file a letter stating their support of the RRWC as a public caucus representative.

Section 7: No compensation will be paid to any member of the RRWC for services as a member of the RRWC. By resolution of the RRWC and if funds are available, travel expenditures for authorized RRWC representatives may be reimbursed for attendance to special meetings relating to RRWC business.

Section 8: RRWC members or organizations must publicly disclose conflicts of interest and abstain from voting on issues in which the members or organizations would have a direct financial conflict of interest.

## **ARTICLE IV. MEETINGS OF THE RRWC**

Section 1: At all meetings of the RRWC, the voting members will be entitled to cast one vote on any motion coming before the meeting.

Section 2: A quorum at RRWC meetings will be 50% plus one (30 members) of the 57 voting members.

Section 3: At a RRWC meeting, a 2/3 majority affirmative vote of the RRWC members present is required to pass a motion before the RRWC. For all votes, the number of votes required for passage shall be rounded up to the nearest whole number. At the first meeting of the year 2001, the voting requirement will be a 60% majority affirmative vote of the RRWC members present.

Section 4: Meetings of the RRWC may be called by a majority of the voting RRWC members or two thirds of the Steering Committee in emergencies. The meetings of the RRWC, the workgroups and the Steering Committee will be held on an as needed base. There will be a minimum of quarterly meetings of the RRWC.

Section 5: Notice of meetings of the RRWC must be sent to individuals who have requested notification and must be mailed at least 10 calendar days prior to the day such a meeting will be held.

Action 6: Action items to be agendized at a RRWC meeting will require a 75% vote to be placed on the agenda for action that day. Discussion items will require the normal process.

Section 7: RRWC meetings will be facilitated by a person or persons designated by the Steering Committee

## **ARTICLE V. OFFICERS**

Section 1: The RRWC will designate one representative from each caucus to serve on the Executive Committee identified in the Project Study Plan. The RRWC Executive Committee representatives shall be seated members of the Steering Committee.

Section 2: The Steering Committee will appoint one of its members to oversee the keeping of RRWC records and one member to have general charge of RRWC finances.

## **ARTICLE VI. COMMITTEES**

### **Section 1: Steering Committee Members**

- The number of members of the RRWC Steering Committee will be 9 members, 3 from each voting caucus.
- The Steering Committee shall be members of the RRWC, shall be representative of the Public Caucus, Economic Caucus, and Environmental Caucus, shall try to achieve a geographic balance of Sonoma and Mendocino Counties, and shall fulfill the mission and goals of the RRWC.
- The RRWC caucuses are responsible for selecting an alternate(s) to represent their interest if a member will be absent from a Steering Committee meeting.

- The Steering Committee shall act as an advisory board to the RRWC. The Steering Committee is responsible for developing the agenda, for providing recommendations for procedural issues and other actions as directed by the RRWC. The Steering Committee, in addition to the powers conferred upon it by these rules, will have such additional powers and duties as may be prescribed from time to time by the RRWC. As appropriate Steering committee members will facilitate discussions at RRWC meetings.
- Election of new Steering Committee members or reelection of current Steering Committee members to additional terms will be done by the caucus they represent and will occur as the first item of business at the last caucus meeting of the year. The Caucuses may replace Steering Committee members at any time during the year.
- Any member of the Steering Committee may be replaced by a 75% vote of the RRWC membership for cause, such as non-attendance, disruptive behavior, etc.
- The term of the Steering Committee members will be one year.

## Section 2: Meetings of the Steering Committee

- The Steering Committee will hold regular meetings to support the operation of the RRWC at such place as may be designated in the notice of the meeting.
- Ten (10) calendar days prior to the general RRWC meeting the agenda will be mailed. Fifteen (15) calendar days prior to the RRWC meeting the Steering Committee will meet to set the agenda. Any proposals for inclusion onto the agenda must be presented to the Steering Committee.
- Action items will be agendized and identified as action items on the agenda mailed to voting RRWC members.
- At all meetings of the Steering Committee, the members will be entitled to cast one vote on any motion coming before the meeting. Five (5) Steering Committee members with at least one representative from each voting caucus will constitute a quorum at all Steering Committee meetings.
- At a meeting at which there is a quorum present, a two third majority affirmative vote of the members present is required to pass a motion before the Steering Committee.

## Section 3: RRWC Workgroups

- The RRWC and/or the Steering Committee may designate workgroups, as necessary.
- Participation in the workgroups is open to all interested parties.
- The Steering Committee will designate a Steering Committee member to act as a liaison for each workgroup.

- Each workgroup will consist of a RRWC member as a coordinator and two or more RRWC members. The workgroup will select the coordinator of the workgroup. Workgroup meetings will have a quorum of 3 RRWC members and/or alternates at all meetings.
- The studies, findings and recommendations of workgroups will be reported to the RRWC for consideration and action. All items will be brought to the Steering Committee for agendaing.
- All proposals which are to be action items must be submitted in writing to the Steering Committee and shall be sponsored by at least one member of all three caucuses. All proposals must include minutes and a roster of participants with a record of support as an element of the proposal being advanced for action by RRWC. Steering Committee review and comments will be provided as part of the presentation to the RRWC. All proposals that meet the requirements as stated will be agendaed in a timely fashion.
- Workgroups may adopt such rules for the conduct of business as are appropriate and are consistent with these rules. Minutes (with workgroup attendees) must be kept. Notification of workgroup meetings will be sent 72 hours prior to the date of the meeting. The notification will be sent to workgroup members, caucus information liaisons, and appropriate staff.
- Each workgroup will report annually to the RRWC on their objectives and accomplishments or at the request of the RRWC or Steering Committee.
- The RRWC will have the following standing workgroups. The purpose and/or function of the workgroups will include but not be limited to the following:

*BUDGET WORKGROUP* responsibilities would include but not be limited to: 1) Managing all funds and securities of the RRWC and work with foundations, local, State, and Federal agencies to identify new funds to fulfill the RRWC mission. 2) Providing support and advice to the RRWC and the Steering Committee on contracts, accounts, and financial records. The Budget workgroup will include at least one Steering Committee member from each caucus.

*PUBLIC OUTREACH AND EDUCATION WORKGROUP* responsibilities would include but not be limited to: 1) Informing the public of watershed problems and solutions. 2) Ensuring that accurate information is provided. 3) Developing and distributing information through a newsletter, webpage, brochures, media packets, and informational packets to libraries and schools. 4) Providing information to schools by conducting workshops, curriculum units, and materials for resource libraries in the classrooms.

*SALMONID RESTORATION WORKGROUP* responsibilities would include but not be limited to: 1) Developing a historical understanding of the salmonid population and the factors and processes that impede restoration. 2) Defining the lost economies associated with anadromous fish. 3) Identifying the salmonid recovery objectives and ways to achieve those objectives. 4) Promoting Federal and State agency

involvement in salmonid recovery. 5) Evaluating the best ways to remove migration barriers in the main stem and selected tributaries.

*WATER QUALITY, SUPPLY, AND QUANTITY WORKGROUP* responsibilities would include but not be limited to: 1) Assessing the impacts of developing new water supplies, to determine flows in all tributaries and main stem and impacts of fluctuating flows. 2) Assessing water quality data/testing including point and non-point sources. 3) Developing water conservation methods and water consumption in the watershed. 4) Assessing water policies of individual agencies. 5) Assessing the impact of urbanization and agriculture on the water sources in the watershed.

*WATERSHED INFORMATION, ASSESSMENT, & MONITORING WORKGROUP* responsibilities would include but not be limited to: 1) Assessing the biological health of the watershed and those factors limiting the restoration of, and supporting the preservation of, healthy salmonid populations. 2) Developing a watershed information system to gauge watershed health and restoration through time. 3) Form a scientific and technical panel to validate and interpret the data used to assess watershed conditions.

*DAM OPERATIONS WORKGROUP* responsibilities would include but not be limited to: 1) Organizing, review, and distribute Corps documents that detail precipitation, stream flow and channel boundaries before dam construction to present. 2) Evaluating the impacts of the public and private dams in the Russian River watershed. 3) Developing alternatives for fish ladders to bypass migration barriers to fish. 4) Identifying technologies to prevent and/or remove accumulated sediments from dam reservoirs.

*TRIBUTARY CLEAN-UP WORKGROUP* responsibilities would include but not be limited to: 1) Developing an assessment of selected tributaries to evaluate their health and function. 2) Mapping tributaries to identify invasive species, migration barriers, and riparian health. 3) Supporting local community efforts to clean-up tributaries and remove exotic plants from the waterways of the Russian River watershed.

## **ARTICLE VII. MISCELLANEOUS**

Section 1: The fiscal year of the RRWC will be October 1 through September 30.

## **ARTICLE VIII. AMENDMENTS**

Amendments will be presented to the full RRWC on the recommendation of three or more Steering Committee members, a majority of a caucus or a written request of one third of the voting RRWC members. All such proposals will come through the Steering Committee for their recommendation and review and shall be presented at the next RRWC meeting for consideration. The RRWC, with a two-thirds majority affirmative vote, may amend these rules to include or omit any provision that it could lawfully include or omit at the time the amendment is made. Any number of amendments or an entire revision of the rules may be submitted to the Steering Committee for recommendations and voted upon at the next general RRWC meeting. Amendments will become effective in ten (10) days.

**EXHIBIT F**

**PHASE I  
DRAFT BUDGET SUMMARY TABLE**

Description	FY 2000			FY2001			FY2002		
	Non-Federal		Federal	Non-Federal		Federal	Non-Federal		Federal
	Cash	In-Kind		Cash	In-Kind		Cash	In-Kind	
Russian River Watershed Council Operations		\$65,000		\$10,000			\$65,000		
SCWA – Staff support, food, AV equipment for RRWC meetings.					\$15,000			\$15,000	
RWQCB – Staff support, mailing for RRWC meetings					\$55,000			\$50,000	
Strategic Plan with Implementation Scope Road Assessment	\$65,000			\$30,000	\$30,000	\$30,000			
Develop Russian River Watershed Restoration Information System (RRIIS)									
Data Analysis and Synthesis			\$25,000						
Problem-specific Restoration Analysis and Synthesis Erosion Prevention Measures						\$10,000		\$55,000	
Scientific Panel Analysis and Synthesis									
RRIIS			\$50,000	\$60,000		\$40,000	\$65,000		\$35,000
Education						\$12,000		\$10,000	
Outreach						\$8,000			
Phase II Plan of Action*									\$125,000
Corps Planning						\$60,000			\$60,000
Corps Project and Program Management			\$55,000			\$40,000			\$40,000
	\$65,000	\$65,000		\$100,000	\$100,000		\$130,000	\$130,000	
<b>SUBTOTAL</b>	\$130,000		\$130,000	\$200,000		\$200,000	\$260,000		\$260,000
<b>TOTAL</b>	<b>\$260,000</b>			<b>\$400,000</b> (PSP total for FY 2001 = \$920,000)			<b>\$520,000</b> (Extension of Phase I by one year)		

\* Develop the Phase II Plan of Action with a consultant to identify specific tasks with implementation measures to fulfill the RRWC goals and objectives. The facilitator would provide on-going update at bi-monthly RRWC meeting to get input and support for document development. A workgroup would assist in periodic briefing of document development.

**PHASE II (FY 2003-2004)**  
**DRAFT BUDGET SUMMARY TABLE**

Description	FY2003			FY2004		
	Non-Federal		Federal	Non-Federal		Federal
	Cash	In-Kind		Cash	In-Kind	
3.1.1 Russian River Watershed Council Operations	\$15,000	\$65,000	\$70,000	\$35,000	\$65,000	\$50,000
SCWA – Staff support, food, AV equipment for RRWC meetings.	0	\$50,000	0	0	\$50,000	0
RWQCB – Staff support, mailing for RRWC meetings	0	\$50,000	0	0	\$100,000	0
3.1.2 Strategic Plan with Implementation Scope (Spin-off Projects)	\$160,000	\$100,000	\$230,000	\$100,000	\$100,000	\$200,000
3.1.3 Public Outreach and Education	\$30,000	\$10,000	\$40,000	\$30,000	\$10,000	\$40,000
3.1.4 Problem-specific Restoration Analysis and Synthesis	\$75,000	0	0	\$75,000	0	0
3.1.5 RRIIS Operations	\$5,000	0	\$5,000	0	0	0
3.1.6 Future Alternative Analysis	\$65,000	\$50,000	\$175,000	\$240,000	\$50,000	\$405,000
3.1.7 Scientific and Technical Panel Analysis and Synthesis	0	\$50,000	\$50,000	0	\$50,000	\$50,000
3.1.8 Dam Operations	\$25,000	0	\$25,000	\$50,000	0	\$50,000
Corps Planning & Contracting			\$110,000			\$110,000
Corps Project and Program Management	0	0	\$45,000	0	0	\$45,000
SUBTOTAL	\$375,000.00	\$375,000.00	\$750,000.00	\$525,000.00	\$425,000.00	\$950,000.00
	\$750,000.00			\$950,000		
<b>TOTAL</b>	<b>\$1,500,000</b>			<b>\$1,900,000</b>		

## **Budget Summary**

The majority of the RRWC's funding should be directed to 5 areas: 1) to implement Council operations, 2) to develop a Russian River Interactive Information System and models for analysis of potential alternative futures, 3) to develop educational outreach programs, 4) to support implementation of restoration projects and 5) to evaluation dam operations. While retaining the various project recommendations of Council workgroups, the Budget workgroup recommended that RRWC support RRIIS and the associated collection, assessment and future alternative analysis, which will support an intensive Council study of the problems involved in salmonid recovery in the Russian River. This evaluation and the concurrent education program will have as an essential component of refining and implementing the various tasks generated by Council workgroups.

Council has finalized the RRWC Rules of Operation and is hiring a coordinator. The next steps are to coordinate a scientific and technical panel; data synthesis and analysis; develop the RRIIS database; develop models such as potential alternative future analysis; work with Federal, State, local agencies, and the public to develop policies and educational programs to support the stability of the Russian River watershed; and to support the implementation of restoration projects throughout the watershed.

This is a budget shaped specifically with consideration of the concerns of the various stakeholders. It springs from efforts of the RRWC at compromise; it seeks to find a way to be informed and carefully, but progressively, move forward. As well, this budget provides that the Council and the larger community are well informed and that the projects the Council supports are firmly based in scientific and social realities.

In all, the proposed budget reflects a care that the process go forward with a conscious eye towards undertakings that unify elements of the community, rather than create tension. Mutual good will and essential understanding are what we want to forward with this budget. It is intended to be practical evidence of conciliation -- the enterprise of compromise -- and that is the spirit in which it is presented. It is not possible to devise perfect solutions to such complex problems as we now face, but neither is it impossible to advance towards a solution, step by step. To that end, these are ways of working which we put forward for the immediate future of the RRWC and the health of our watershed.

### **3.1.1 Russian River Watershed Council Operations**

The Council will use operating funds to convene meetings, develop programs, become informed, communicate, organize, develop alternative sources of funds, interact with public agencies, and fulfill state and federal accountability requirements. Operating funds will cover:

\* Salary and benefits for a Council Coordinator (who will be responsible for communication within the Council, representing the Council at meetings with public agencies and other organizations, preparing documents for Council meetings and gatherings; correspondence;

program development, and other activities). These funds will also pay for the Coordinator's supplies, telephone, travel and approved purchases (such as a computer).

- \* For part-time clerical and accounting assistance.
- \* Rent for Council meeting places (Sonoma County's in-kind contribution)
- \* Fees for professional facilitators to conduct Council meetings.
- \* Printing, copying and mailings of Council materials.
- \* Purchase of books, periodicals and reports related to watershed issues for the research and implementation purposes of the Council.
- \* Approved travel so Council Members or the Coordinator may attend meetings, conferences and workshops

### 3.1.2 Strategic Plan with Implementation Scope

The Russian River Watershed Council (RRWC) supports the health and sustainability of the watershed's natural resources. To assist in achieving this objective, the funding would support the following needs:

Salmonid Restoration: 1) Developing an historical understanding of the salmonid population and the factors and processes that impede restoration. 2) Defining the lost economies associated with anadromous fish. 3) Identifying the salmonid recovery objectives and ways to achieve those objectives. 4) Promoting Federal and State agency involvement in salmonid recovery. 5) Evaluating the best ways to remove migration barriers in the main stem and selected tributaries.

Water Quality, Supply, and Quantity: 1) Assessing the impacts of developing new water supplies, to determine flows in all tributaries and main stem and impacts of fluctuating flows. 2) Assessing water quality data/testing including point and non-point sources. 3) Developing water conservation methods and water consumption in the watershed. 4) Assessing water policies of individual agencies. 5) Assessing the impact of urbanization and agriculture on the water sources in the watershed.

Tributary Clean-Up: 1) Developing an assessment of selected tributaries to evaluate their health and function. 2) Mapping tributaries to identify invasive species, migration barriers, and riparian health. 3) Supporting local community efforts to clean-up tributaries and remove exotic plants from the waterways of the Russian River watershed.

### 3.1.3 Public Outreach and Education

Education. Funds will also be used to develop and test a watershed curriculum for elementary and high school students. Programs would be provided for teachers to develop multidisciplinary units. The RRWC would work cooperatively with the Sonoma and Mendocino County Departments of Education and existing environmental education programs (including Sonoma State University) in developing curricula and materials. This would be a multi-year project with the first year devoted to curriculum development. It is expected that curricula would be distributed, in part, through the RRIIS webpage.

Outreach (\$45,000 per year). A program to build public support and involvement in river protection and restoration. One of the programs being considered by the RRWC is a process to educate and inform local agencies and the public of the detrimental effects of roads on the landscape and the importance of adequate maintenance. To support this program and other programs and projects, as they are developed, some of the communication tools to be developed/used are a newsletter, webpage (RRIIS), RRWC brochure, press releases and a resources library which will include books, videos, slides, and posters.

#### 3.1.4 Problem-Specific Restoration Analysis and Synthesis

In each of the two years, funds will be directed to State Fish and Game's Stream Assessment Program led by Department of Fish and Game Biologist, Bob Coey. This program on-site habitat assessment in watershed tributaries providing important information on restoration potential and tributary problems. The program helps to build positive relationships with landowners and provides volunteer opportunities for the general public.

In each of the two years, funds will be directed toward coordinating a watershed-wide tributary cleanup that will be coordinated with the Fish and Game's program. This cleanup will have as its goal the removal of trash and debris from the river's tributaries.

#### 3.1.5 Develop Russian River Integrated Information System (RRIIS)

Data Analysis and Synthesis. A review and synthesis, coupled with analysis, of previous scientific studies on the Russian River and its watershed to discover what information remains useful and relevant to watershed restoration projects and public policy, and what work still needs to be done so that the Council can confidently set its project and policy priorities. This process would include: 1) Assessing the biological health of the watershed and those factors limiting the restoration of, and supporting the preservation of, healthy salmonid populations. 2) Gauge watershed health and restoration through time. 3) Validate and interpret the data used to assess watershed conditions.

#### 3.1.6 Analysis of Potential Alternative Futures (Modeling Studies)

Develop alternative scenarios of future land use and water resource management. The effects of the scenarios might be assessed, for example, for two endpoints: 1) water quality (estimated loading rates of suspended sediments and nutrients, etc), 2) salmonids (habitat suitability and availability within the watershed, etc).

The alternative futures assessment could address a number of basic questions, including:

1. How have humans altered the landscape of the Russian River watershed over the last 150 years?
2. How might human land and water use management and policies alter the basin's landscape in the future?
3. What are the likely ecological and socio-economic consequences of these alternative futures?
4. What types of human activities and management actions, and where, are likely to have the greatest effects?
5. Landscape change analysis to study how urbanization and changes in farming patterns might effect water use, sedimentation, riparian habitat, etc

Problem-specific studies that will be conducted and reviewed by consultants hired by the Council, including such areas as: salmonids, hydrology, groundwater recharge, flows, sedimentation/turbidity, riparian vegetation, flood regimes, water quality and water supplies.

### 3.1.7 Scientific and Technical Panel

To assist in data analysis and quality control, the Council will select a panel of scientific professionals, agency biologists and hydrologists and academic experts to provide input for Council projects and to review conclusions. The Panel would have clerical support to coordinate the Panels review process.

### 3.1.8 Dam Operations

The RRWC will work with the Corps of Engineers to collect and review existing data regarding dam operations in the watershed and possible solutions that have been implemented in other watersheds. The task would include: 1) Organize, review, and distribute Corps documents that detail precipitation, stream flow and channel boundaries from before dam construction to present. 2) Evaluating the impacts of the public and private dams in the Russian River watershed. 3) Developing alternatives for fish ladders to bypass migration barriers to fish. 4) Identifying technologies to prevent and/or remove accumulated sediments from dam reservoirs.

### 3.1.9 Planning, Program, and Project Management

These are the RRWC's federal costs. They must be covered in order to pay for ongoing support and consultation with the Corps; development and revision of planning documents, and review and evaluation of progress. Services include legal counsel, accounting, contracting and fiscal management strategy. Funds that are not used may be shifted to other categories.

## **EXHIBIT G**

### **DRAFT SCOPE OF WORK**

#### **The Russian River Interactive Information System (RRIIS)**

The RRIIS will be spatial and non-spatial CD ROMs and an interactive, evolving web site that will function simultaneously as a site for public education, communication and feedback, as a bibliography and database to assist scientists with long-term data storage and sharing, and as an informational resource for managers, and decision makers, all working to protect, restore, and enhance the biological health of the Russian River and its watershed.

#### **SECTION A: INTRODUCTION**

A RUSSIAN RIVER INTERACTIVE INFORMATION SYSTEM (RRIIS) shall be developed to enhance the mission of the Russian River Watershed Council. The Watershed Information, Assessment and Monitoring (WIAM) work group of the Russian River Watershed Council (RRWC), in association with the United States Army Corps of Engineers (USACE) and the California State Resource Agency (RA) will oversee the development of RRIIS to be both a CD ROM and a user-friendly, publicly accessible, website that functions simultaneously as a central storehouse for data, a tool for education, and a forum for interactive communication between the public, scientists, agencies, the RRWC, and other watershed organizations.

As part of the formation of RRIIS, the contractor will perform a prioritization of existing data sources and a data gap analysis in consultation with the WIAM workgroup, existing researchers in the watershed, the WIAM Technical Review Panel, and the RRWC, as appropriate. The contractor will serve as a facilitator between these various groups to ensure that this prioritization and gap analysis draws upon the extensive experience of people currently working in the watershed. The analyses will include a review of existing digital and non-digital databases and relevant watershed literature, including existing bibliographic reviews, to identify important data needs for the RRWC's assessment and planning objectives. Development of the RRIIS will coordinate closely with ongoing efforts to develop a comprehensive GIS database for the Russian River. The contractor will also seek the input of the proposed WIAM Technical Review Panel, and other scientists working in the Russian River watershed to determine which data, and formats, will be most useful for long-term monitoring and assessment of the watershed. Important data layers that do not exist in a digital form can then be prioritized and the RRWC can consider funding the acquisition or development of these data layers.

All information incorporated onto the RRIIS shall be freely shared with government and non-governmental agencies and the public. Acknowledgement and documentation (the metadata) shall be made of all data sources.

## **SECTION B: DATA TYPES, FORMATS, AND ACCESS MECHANISMS**

The contractor shall collect all appropriate digital and non-digital data sets, and prepare them for RRIIS. The RRIIS shall include, but not be limited to, the data gathered by the National Marine Fisheries Service (NMFS), Circuit Rider Productions, University of California (UC) Hopland Research and Extension Center, the California Department of Fish and Game (CDFG), North Coast Regional Water Quality Control Board, United State Geological Society (USGS), Natural Resource Conservation Service, California Department of Agriculture, California Department of Forestry, Department of Water Resources, the cities and counties of the Russian River watershed, the Resource Conservation Districts, non-governmental organizations, and other sources as identified.

RRIIS shall be developed with an emphasis towards user-friendly operation. It should have download capabilities, be readily searchable, and be easily accessible for user search and queries with extensive indexing and cross-referencing. It should be capable of expansion as technological advances are made. Information in the RRIIS shall be distributed on CD ROMs and through an interactive public website on the Internet. The contractor shall work with the WIAM workgroup and the WIAM Technical Review Panel to insure that the RRIIS fulfills the needs of the RRWC.

Following are descriptions of the types of data that shall be included in the RRIIS, and the structure for data storage, access and retrieval. This structure will be an essential part of the success of the RRIIS in terms of how data are utilized by scientists, managers, and decision makers, and how the RRIIS is used by the public for communication and education. The organization and structure of data and information will also allow the RRIIS to facilitate communication between the public, agencies, scientists, and organizations.

1. Links to existing data sets. Where data currently exist on the World Wide Web, RRIIS will provide well-organized links to the site providing the data (e.g. a link to a specific USGS gauging station on the Russian River). To facilitate public access and use of these existing sites, the RRIIS will provide an explanation of the data and its source along with the link.
2. Spatial data. The contractor will engage in the gap analysis described above for GIS layers in cooperation with ongoing GIS database development efforts and in consultation with GIS researchers in the basin. All relevant layers will be provided through the website so that they can be downloaded by GIS users throughout the basin and elsewhere. (Because NMFS is commissioning the development of a comprehensive GIS database, it will be important for the RRIIS to be developed such that it is compatible with this database. The RRIIS may be able to serve as the means by which this GIS database is made available to researchers and the public in a manner that allows downloading of specific coverages and interactive viewing and mapping.) Such data layers shall include,

but not be limited to: vegetation, land use, parcels, streams, topography (DEMs), paved and unpaved roads, urban areas, soils, geology, dam locations, stream habitat, fish distributions including historic and current salmonid population estimates, water quality, water diversions and discharges, appropriated and riparian water rights, riparian vegetation, gravel mine locations, and location of restoration projects (riparian, roads, and instream). In this capacity, the RRIIS will serve as a central storehouse for GIS layers for the Russian River that researchers can access for “one-stop-shopping” for spatial information.

3. Spatial data for non-GIS users. The RRIIS shall include a product, such as ArcView Internet Map Server (IMS), that allows interactive mapping and analysis sessions over the Internet. This will allow users of the site who do not have GIS software on their computer or familiarity with GIS to view geographic data projects. The contractor will prepare internet mapping projects that contain the most important and relevant data layers for public internet users, along with concise directions on how to use the interactive mapping session, display different layers and perform functions (zoom in, pan, simple queries and searches). This will allow users without GIS skills the ability to perform basic spatial analyses and create maps of the specific issues and geographic areas that are of interest to the individual.
4. Time-series/monitoring data. Through the gap analysis and consultation with the WIAM workgroup and the WIAM Technical Review Panel, the contractor will recommend which data sets are most important for long-term monitoring and assessment of the watershed. These may include, but are not limited to: water quality data, river and tributary flows, rainfall, geomorphological data (including channel cross sections, longitudinal profiles, and pebble counts), water temperatures, hatchery releases, salmon numbers from screw traps, and salmon population data. Where possible and informative, these data will also be linked to a geographical location (e.g. a specific gauging station or a location on the river where a cross-sectional survey was performed). Where these data do not exist in a digital form, the contractor, in consultation with WIAM and the WIAM Technical Review Panel, can recommend to the RRWC that these data be converted to digital form. Further, many needs may be identified during the gap analysis for which no data currently exist. These needs can be expressed to the RRWC for consideration for funding future studies.
5. Updating data sets. A key feature of the RRIIS will be its ability to continually update data sets. Major GIS labs (such as agencies, universities, and other organizations) will be given access permission to upload GIS coverage. The RRIIS will have a stated policy regarding these uploads, in terms of their format, metadata, and where they are placed in the database (to maintain organization of data coverage). The webmaster will monitor these uploads periodically to ensure that the GIS database is maintained in an organized, workable manner. Through this process, the RRIIS will continue to provide the most current coverage, as they are developed (and reflecting real changes on the ground, such as vegetation, land use, roads). A proposed Russian River GIS users’ group, formed in cooperation with the WIAM workgroup, will have some administrative review authority over the RRIIS GIS database to assist the webmaster in keeping the RRIIS spatial data

layers accurate. For example, the RR GIS users' group can recommend deletion of obsolete coverage, or coverage with many errors, and provide input on any organizational changes to the database (e.g. database structure).

6. Maintaining/monitoring data sets. The contractor will consult with agencies or others that collect ongoing data (e.g. water quality data). If these agencies provide the data on the web, then the RRIIS will provide links to this data. If the data are not available on the web, the contractor will develop a process that will allow the agency to upload the data to the RRIIS. If the agency is unable to upload this data, and if the monitoring data are deemed to be important by the WIAM, then the contractor will work with the RRWC to develop another process to have the data updated through time.
7. Restoration projects. Projects that have been mapped shall be included in a spatial data layer of current restoration projects. The attribute fields for this layer will include information on each project including: the type of project (what was done), the stream name, who funded the project, and the project's objectives. The contractor will also provide a template for restoration projects to allow responsible parties to enter information on the project, links to photos, and monitoring data. An access code will be assigned to the contact person for the project so that they can upload new comments, monitoring results, and new photos through time. A restoration portion of the website will also have links to current sources of funding and information on who is eligible, what types of projects can be funded, and how to apply. Further, there will be links to agencies, non-governmental organizations, and private practitioners who can provide restoration guidance, technical expertise, and project implementation services. There will be a standard form for users to add new restoration project location and information. These new projects will have the same template that will allow updated monitoring results and photos.
8. Bibliographic data. Through the literature review (in consultation with relevant scientific and management organizations) the contractor, in cooperation with WIAM and the WIAM Technical Review Panel, will evaluate, prioritize, and organize documents to store in the RRIIS. If the documents do not exist in digital format (e.g. HTML, PDF), they will be scanned and stored as PDF files. The contractor and WIAM will establish a review process whereby organizations, agencies and scientists can submit documents in digital form to be uploaded to the RRIIS. This capability will be well publicized to encourage organizations to submit relevant documents and reports. The bibliography will be searchable and provided in four formats: 1) alphabetical by author for general searches; 2) organized by major topic; 3) organized by keyword and annotated; and 4) nested throughout the website. For example, when a user is in the interactive ArcView page, there will be links to articles about GIS as well as studies that have utilized GIS. When the user is in the Restoration page, there will be links to reports on restoration projects and 'how-to' articles on restoration techniques. In addition to written reports, the bibliographic database will include scanned historical maps (i.e. non-GIS maps) and photos. The bibliographic database will also store newsletters from organizations in the watershed (and the RRWC) and relevant articles from local newspapers (or these may be provided as links).

9. Information/communication services for local groups. The RRIIS will provide links to tributary watersheds of the Russian River (accessed through a list and through a point-and-click map). A data table for each tributary watershed will provide basic information such as its size, proportions of major vegetation/land use types, fish found historically and currently in the drainage, a list of restoration projects in the drainage, studies specific to the drainage, and whether the watershed has its own watershed group (e.g. the McNab Creek Watershed Group). If the drainage has its own watershed group, the group will be provided with a code that allows them to access a template provided by the RRIIS. By filling in fields in the template, the group will be able to produce its own website for their specific tributary watershed. Features of such 'tributary websites' will include: a section for announcements, a calendar of events, contact numbers, links to reports that are specific to that drainage, photos, maps (e.g. the watershed group can use the interactive ArcView IMS then export a map to their own watershed site), and the ability to update data collected from restoration projects or volunteer monitoring sites in the watershed. These fields can be continually updated by the group by using their access code to edit their template.
10. Training for website maintenance. The contractor shall provide whatever training is necessary for the continued upkeep and operation of the RRIIS after the development contract has expired. The training will be provided to a person or group selected by the WIAM workgroup.

## **Section C: TASKS AND TIMELINES**

Development of the RRIIS will include the completion of the following tasks with the associated timelines.

### **All the tasks are to accomplish the implementation of RRIIS.**

Semi-annual work in progress reviews by the RRWC, in conjunction with USACE and the California State Resource Agency, shall take place at a regularly scheduled RRWC meeting and as requested by WIAM, the USACE and/or the California State Resource Agency.

**6 months** after the Corps issues a notice to proceed (NTP).

**Task 1:** Design site architecture to be compatible with NMFS/CRP GIS database.

**Task 2:** In consultation with WIAM and the WIAM Technical Review Panel, contractor will identify most important data sets. Utilizing existing GIS and data gap analyses, determine additional data needs and potential study areas.

**12 months** after the Corps issues a NTP

**Task 3:** Consult with all key personnel and agencies. Acquire all relevant MOU's and other documents establishing access to information bases held by the named agencies.

**Task 4:** Provide well-organized links to relevant data sources; post on prototype webpage; where possible, link data sets to a geographic location. Provide a prioritization of data to be placed on the RRIIS's information CD with input from WIAM and the WIAM Technical Review Panel.

**Task 5:** Design site architecture to accommodate different types of data sets (e.g. those types identified above).

**Task 6:** Develop template with WIAM for restoration projects; this template will allow project information to be entered as spatial location and other information.

**Task 7:** In consultation with WIAM, the WIAM Technical Review Panel, and RRWC, the contractor will select relevant bibliographic information to be included on the site.

**18 months** after the Corps issues a NTP

**Task 8:** Acquire relevant data sets; convert to digital format, if necessary; where possible, link data sets to a geographic location. All new data shall be summarized, sourced, and annotated according to appropriate metadata standards. Data will have online links to real-time and time-relevant data sources in the Russian River watershed to support RRWC activities.

**Task 9:** Develop mechanism so RRIIS template can be used to upload new restoration project information. Load restoration project mapping and related information database.

**Task 10:** Provide a publicly available/assessable RRWC website for RRIIS.

**Task 11:** Scanning appropriate documents, maps, and photos for posting on website. Maps will be geo-registered and mosaiced Historical Topographic Sheets, 1:52,000 scale geo registered and mosaiced IR photos (NOAA)

**Task 12:** Provide templates for local groups to upload data, images, text, etc.

**Task 13:** Provide a written report to the RRWC and the Corps of Engineers identifying data gaps and prioritize data needs as they relate to RRWC assessment and planning objectives.

**Task 14:** Provide a written report to the RRWC and the Corps of Engineers identifying opportunities for ecosystem restoration and watershed protection strategy, including structural and nonstructural environmentally and economically sustainable plans of action.

**24 months** after the Corps issues a NTP

**Task 15:** Provide data sets on web.

**Task 16:** Bibliographic data available on website. The bibliography will be provided in four formats: 1) alphabetical by author for general searches; 2) organized by major topic; 3) organized by keyword and annotated; and 4) nested throughout the website.

**Task 17:** Provide training for webmaster on site processes.

**Task 18:** GIS data available for download (contingent upon development of NMFS/CRP data).

**30 months** after the Corps issues a NTP

**Task 19:** An interactive mapping and analysis product, such as ArcView IMS, to be available for public use of spatial data (contingent upon availability of NMFS/CRP data)

**Task 20:** Restoration projects available as a spatial data layer. The data will be used to set restoration priorities by having a common source of credible, peer reviewed information about what habitat projects have been done, are being done, are proposed, and what might be their local and cumulative effects on habitat fragmentation, wildlife corridors, species recovery, public access, achieving policy goals, etc. This will be developed for the duration of the contract.

**36 months** after the Corps issues a NTP

**Task 21:** Load program maps and other data, as defined in Section A and B onto the RRIIS website database. This task will include 12 months for programming with integration completed in 36 month from NTP.

**Task 22:** Produce RRIIS CD and MAP CD.

**Task 23:** Provide mechanism for ongoing updates of GIS data.

**Task 24:** Provide mechanism for ongoing updates of data sets.

**Task 25:** Program RRIIS database to run on website and maintain website for the period of the contract. Online maps will be searchable by watershed restoration projects, sources of historical data, local ecological support functions, and descriptions of key habitats and wildlife species can be accessed by clicking on habitat patches and boundaries. All maps can be panned across, zoomed into and away from, and exported entirely or in part to local printers and software applications.

## **Willow Creek Watershed Proposal Development for Proposition 13 Funding**

**submitted to the RRWC for  
Fiscal Year 2001 Russian River Watershed Council  
Watershed Restoration Analysis Projects Funding**

### **PROPOSAL DESCRIPTION:**

The Salmonid Restoration workgroup is seeking \$10,000 to provide matching funds for a Willow Creek watershed proposal to compete for Proposition 13 funding.

There are several groups that have approached California Department of Parks and Recreation (State Parks) with interest in doing restoration and education projects within the Willow Creek watershed. State Parks is coordinating a collaborative effort to produce a combined Proposition 13 proposal for the Willow Creek watershed. The RRWC funds will be given to the Proposition 13 proposal coordinator chosen from State Park's coordination efforts.

State Parks will hold a meeting prior to the November 18 RRWC meeting to discuss and develop the Proposition 13 pre-proposal. Specific details on the final pre-proposal will be provided at the November 18 RRWC meeting.

### **PROPOSAL COORDINATOR:**

The proposal coordinator is yet to be determined and will be identified by the November 18 RRWC meeting.

### **PROJECT LOCATION:**

Willow Creek watershed, tributary to the Russian River, on coastal Sonoma County

### **PROPOSITION 13 PROPOSAL TIMING:**

The initial Proposition 13 pre-proposal is due November 27, 2000. The Russian River Watershed Project Evaluation Team (Evaluation Team) will notify all selected pre-proposals for further consideration by December 11, 2000. The final detailed workplan and application is due by January 22, 2001. The proposals selected for funding will be announced by February 26, 2001. See the Evaluation Team's proposal announcement dated October 24, 2000 for further information.

### **PROPOSAL GUIDELINES:**

This proposal will fund efforts to develop and implement a management program that will enable the Willow Creek partnership to restore, protect, and monitor significant wetland, riparian, and aquatic habitats within the Willow Creek watershed. The Willow Creek watershed drains an area of approximately 8.7 square miles, nearly all of which is owned and managed by two large landowners; State Parks and Mendocino Redwoods Company. The Willow Creek valley has a history of heavy logging and road building activity on top of an already geologically active, erosive area. As a result, it has become very degraded, and the fish population has declined seriously.

These habitats are severely threatened by excessive sedimentation resulting from uncorrected land management practices, including road building, timber harvesting, and grazing. Fisheries

habitat for threatened and endangered anadromous salmonids and water quality have been degraded to the extent that the entire lower channel is now filled with sediments, leaving a discontinuous, braided stream through which fish must attempt to migrate.

The final Proposition 13 proposal will assist coordination and cooperation of all major stakeholders in the watershed, including both private and public interests. The initial planning process should identify any and all watershed information that may be available for the Willow Creek basin. This information will then be used as a basis from which additional data will be collected and integrated to formulate specific strategies and designs for reducing excess sediments, restoring natural fluvial processes, and monitoring riparian and wetland habitats of Willow Creek. Public outreach and education should also be a significant component of this project, as several educational, nonprofit, and citizens organizations have long expressed interest and have been actively involved in the protection of the Willow Creek watershed. Data developed from this proposal will be shared with the Russian River Interactive Information System.

**AGENCIES AND ORGANIZATIONS IN THE WILLOW CREEK PARTNERSHIP:**

California Department of Parks and Recreation	Russian River Watershed Council
California Department of Fish and Game	Trout Unlimited
California Division of Mines and Geology	Stewards of Slavianska
Sonoma Coast Advisory Council	Mendocino Redwood Company
Regional Water Quality Control Board, North Coast Region	

**NEED FOR PROPOSITION 13 FUNDING:**

The Willow Creek basin is considered a significant natural area, worthy of preserve classification. Willow Creek is also a coastal tributary of the Russian River, one of the basins that has been listed as an impaired watershed for sediment under Section 303d of the Clean Water Act. The Willow Creek channel has supported federally listed anadromous fish, steelhead and coho salmon, at least in the recent past. The federally listed red-legged frog has also been recently documented in the lower wetland and channel areas.

In recognition of the significance of this area, State Parks funded a preliminary assessment of the sedimentation problems and has recently held meetings with several interest groups, including several agencies and the upstream timber landowner. Under the guidance of the California Department of Fish and Game, Trout Unlimited has conducted in-stream inventories in Willow Creek and has completed some upslope erosion control projects. Plans are currently underway by the upper watershed landowners to further assess sedimentation sources associated with roads. However, there is still a strong consensus among the interest groups that a comprehensive restoration and monitoring plan and program needs to be developed and implemented to thoroughly address and correct the sedimentation problems, before Willow Creek is degraded to a point of no recovery.

Proposition 13 funding will enable the Willow Creek Partnership to collaboratively accomplish this goal and to pursue additional matching funds from other sources to implement a long-term restoration, educational, and monitoring program aimed at returning Willow Creek to a healthy, natural ecosystem.

## EXHIBIT H

### **California Department of Fish and Game Salmon Habitat Inventory and Restoration Contract**

#### 1. Contract Outline

This contract will provide salmon habitat assessment, inventory and restoration work on tributaries of the Russian River. The compilation of the data will be under the supervision of the Associate Biologist, California Department of Fish and Game (CDFG)'s Russian River Basin Planning Project leader in Hopland and field work will be conducted with field supervision by a Fish and Wildlife Assistant.

The contract work will be for one (1) year with the field season being May through October.

Work performed will include: securing access permission for inventory and restoration work (researching parcel ownership, and contacting approximately 750 landowners by mail and telephone), channel and stream habitat inventories of salmonid rearing and spawning habitat, biological surveys (electrofishing, spawning and macro-invertebrate sampling), field data entry into computer database, and report writing assistance. The crew leader will retrieve, review and edit data, and coordinate access permission through the CDFG project leader. This work will be accomplished following standard methodologies discussed in CDFG's *California Salmonid Stream Habitat Restoration Manual* (Flosi et al., 1998).

Reports produced on the status of fish and fish habitat in the Russian River sub-basins include recommendations for fish habitat improvement, and are needed to meet the legislative mandates and intent of SB 2261, and for reporting requirements of Sport Fish Restoration Act funding.

#### 2. Justification

From data collected, reports on the status of fish and fish habitat in the Russian River sub-basins and recommendations for fish habitat improvement will be produced. Completion of these reports will meet the legislative mandates and intent of SB 2261 and are necessary for federal contractual requirements of Sport Fish Restoration Act funding.

CDFG's Russian River project (Project) has been in operation for 5 years. The Project currently has an on-site project leader, a fisheries biologist, data and spatial data coordinators, office space, office equipment (phones, fax, copiers, computers) and a small inventory crew stationed centrally in the Russian River watershed at Hopland. AmeriCorps\* personnel are also utilized within the program to provide community outreach and an education element to further the goals of watershed education and restoration. Supervisory oversight and administrative support of the Project is provided by CDFG staff at the Coast Central Regional office in Yountville. This existing support base will provide realized cost savings to the USACE in providing assessment teams to the watershed.

Basin planning on the Russian River tributaries through the Department of Fish and Game's Basin Planning Project has been on going since January 1994. Since 95% of the basin is held in private ownership, trespass permission must be obtained prior to survey work. Through working co-operatively CDFG has developed an excellent track record with watershed landowners and enjoys a 90% success rate in obtaining access permission to private properties. The Project has also enlisted the support and cooperation of the Sonoma and Mendocino County assessor's office, and has a standardized procedure for obtaining, cataloging, and disseminating access information.

DFG has developed scientifically proven standardized methodologies to inventory salmonid habitat and has published these methodologies in it's *California Salmonid Stream Restoration Manual* (Flosi et al. 1998). These standards are used on the Russian River as well as statewide. Because ESA protected species reside in the basin, any assessment activity conducted will require permits from NMFS and the USACE. The CDFG program already operates under an existing Section 10 Permit with NMFS for program activities, and has completed consultation with the USACE. The Project leader, as the principal investigator under the permit, already has an established reporting procedure with NMFS and a training program, provided annually for crews and other resource professionals, as required by NMFS. In addition, the CDFG manual and CDFG protocol is covered by a general permit obtained from the San Francisco office of the USACE.

### 3. Background

At this time, CDFG has inventoried 50% of the Russian River tributaries. The data will be collected using standard methods, ensuring that future data collection efforts are coordinated and comparable with previously collected data. Data storage and analysis techniques are also standardized, and incorporated into CDFG's statewide salmonid database. These standardization techniques have facilitated GIS capabilities, which enables coordinated distribution of data to other agencies and the general public.

The CDFG Russian River Project leader is utilizing data collected by the assessment teams to develop a long range Basin Plan document to restore anadromous fish and their habitat. The Project leader also utilizes this data for restoration project development and prioritization of state and federal funding sources for salmonid stream enhancement.

## STATEMENT OF WORK

The contract will support the inventory and assessment of fish habitat on tributaries of the Russian River as described in the *California Salmonid Stream Habitat Restoration Manual*. Specific tasks include but are not limited to:

1. Arrange DFG, AmeriCorps and CCC access to private and public lands by identifying property owners and obtaining trespass permission to accomplish watershed and fish habitat inventories on anadromous fish streams.
2. Perform stream channel and habitat classification
3. Perform biological sampling, including, but not limited to: electrofishing and spawning surveys, macro-invertebrate sample collection, temperature and sediment sampling, upslope sediment surveys
4. Edit and enter data collected into a computer database program
5. Assist in report writing and recommendations for fish habitat improvement within the stream.
6. Analyze fish habitat improvement needs and assist with developing specific plans and projects to implement fisheries habitat improvement projects.
7. Evaluate fish habitat improvement projects as described in the *California Salmonid Stream Habitat Restoration Manual*.
8. Provide a written report to the Corps and present findings to the Russian River Watershed Council at the end of the contract period, Spring 2002.

**California Department of Fish and Game/ U.C. Extension**  
**GIS Basin Planning and Mapping**  
FY 2000 - 2001

1. Contract Outline

This contract is needed to fund a Geographic Information Systems (GIS) analyst position and the operating funds to maintain GIS support to basin planning in the Russian River. This research will entail fisheries distribution mapping, identification of fish habitat restoration needs by stream reach, predictive models of land conversion, and development of GIS management planning tools related to landscape ecology. The duties for this position will include providing GIS support, development of AML and Avenue programs, interfacing a workstation GIS with microcomputer-based GIS and data analysis packages, and documentation of the above tasks. The duties and products described above require a trained GIS analyst (Program Analyst II) who will be under the supervision of the Associate Biologist, CDFG's Russian River Basin Planning Project leader in Hopland.

This request is for: salaries and operating expenses (to cover GIS lab fees for mapping and office supplies), for DFG to sub-contract with the University of California, Hopland Research and Extension Center. The contract would last for 1 year from November to November.

Work performed will include: developing GIS coverage on 1999 and 2000 stream inventory data to amend the draft basin plan currently being developed by the Department of Fish and Game on the Russian River. Contractors' duties will include project design, data preparation, spatial data analysis (of data collected by CDFG field interns conducting extensive stream inventories to determine the status of the fishes and fish habitat in the Russian River tributaries), report preparation, and public outreach. Maps and data layers displaying the status of fish and fish habitat in the Russian River sub-basins including recommendations for fish habitat improvement will be completed.

17. Justification for Contract

CDFG's Russian River project (Project) has been in operation for 6 years. The Project currently has an on-site project leader, a fisheries biologist, data and spatial data coordinators, office space, office equipment (phones, fax, copiers, computers) and a small inventory crew stationed centrally in the Russian River watershed at Hopland. The proposed contractor is already located at Hopland Research and Extension Center, Mendocino County, where the CDFG project leader (who will supervise the contractor) is also housed. AmeriCorps\* personnel are also utilized within the program to provide community outreach and an education element to further the goals of watershed education and restoration. Supervisory oversight and administrative support of the Project is provided by CDFG staff at the Coast Central Regional office in Yountville. This existing support base will provide realized cost savings to the USACE in providing assessment teams, data, maps, and prioritized recommendations to the watershed.

Basin planning on the Russian River tributaries through the Department of Fish and Game's Basin Planning Project has been on going since January 1994. Since 95% of the basin is held in private ownership, trespass permission must be obtained prior to survey work. Through working

co-operatively CDFG has developed an excellent track record with watershed landowners and enjoys a 90% success rate in obtaining access permission to private properties. The Project has also enlisted the support and cooperation of the Sonoma and Mendocino County assessor's office, and has a standardized procedure for obtaining, cataloging, and disseminating access information.

DFG has developed scientifically proven standardized methodologies to inventory salmonid habitat and has published these methodologies in its *California Salmonid Stream Restoration Manual* (Flosi et al. 1998). These standards are used on the Russian River as well as statewide. Because ESA protected species reside in the basin, any assessment activity conducted will require permits from NMFS and the USACE. The CDFG program already operates under an existing Section 10 Permit with NMFS for program activities, and has completed consultation with the USACE. The Project leader, as the principal investigator under the permit, already has an established reporting procedure with NMFS and a training program, provided annually for crews and other resource professionals, as required by NMFS. In addition, the CDFG manual and CDFG protocol is covered by a general permit obtained from the San Francisco office of the USACE.

At this time, CDFG has inventoried 60% of the Russian River tributaries, and by the year 2002 the inventory is predicted to be near completion. The proposed crews will receive training from the Project leader, and utilize the standard methods, ensuring that future data collection efforts are coordinated and comparable with previously collected data. Data storage and analysis techniques are also standardized, and incorporated into CDFG's statewide salmonid database. These standardization techniques have facilitated GIS capabilities, which enables coordinated distribution of data to other agencies and the general public.

The CDFG Russian River Project leader is utilizing data collected by the assessment teams to develop a long range Basin Plan document to restore anadromous fish and their habitat. The Project leader also utilizes this data for restoration project development and prioritization of state and federal funding sources for salmonid stream enhancement.

## STATEMENT OF WORK

USACE shall provide funds to CDFG to develop sub-contract with the University of California, Hopland Research and Extension Center to fund a Geographic Information Systems (GIS) analyst position and operating expenses to maintain GIS support to basin planning in the Russian River. Specific tasks include but are not limited to:

### Research and Development (40%)

Programmer/Analyst I specific duties will be: participate in the design, data analysis, and coverage preparation for CDFG Basin Planner. This includes taking the lead in developing GIS data layers using existing information.

- A. Perform dynamic segmentation and calibration of fisheries data to develop coverage on the fish habitat of the Russian River basin.
- B. Use databases, spreadsheets, and other software to inventory and analyze data
- C. Use Arc/Info and ArcView to integrate field data with spatial data
- D. Create professional quality maps on fisheries distribution and habitat quality

### Products (40%):

Programmer/Analyst II specific products will be: from output of R & D, perform spatial analysis on resulting fisheries distribution and habitat elements, and display restoration priorities based on advice of the CDFG personnel using a GIS. Report on habitat elements and assist CDFG project leader with stream and restoration recommendation prioritization. This includes taking the lead in developing GIS data layers incorporating new information from other data resources, stakeholders, and technical advisory groups.

- A. Use results of GIS analysis to amend draft basin action plan for fish habitat improvement
- B. Perform spatial analysis and synthesize results to create data layers on fisheries distribution and habitat quality
- C. Use GIS to develop innovative methods of fish habitat evaluation
- D. Provide quarterly reports on progress and final report at contract termination

### Outreach (10%)

Program Analyst II specific duties will be:

- A. Extend analysis results to the public and scientific communities
- B. Present results at public meetings using maps, overheads, and other media
- C. Publish results in literature oriented to the general public and different stakeholder groups