



North Coast Resource Partnership

Policy Review Panel (PRP) & Technical Peer Review Committee (TPRC) Meeting

April 17, 2014; 10 am – 3 pm; Holiday Inn Express, Yreka

BACKGROUND INFORMATION AND RECOMMENDATIONS

The following items correspond to the North Coast Resource Partnership (NCRP) agenda for April 17, 2014 and are in agenda order and item number. The items below include background information for agenda items that require additional explanation and in some cases include recommendations for action. The meeting agenda and other meeting materials can be found on the NCRP/NCIRWMP website at <http://www.northcoastirwmp.net/docs.php?ogid=1000002542>

Item IV. NCRP Governance: PRP Decision Making and Role/Composition of Ad Hoc Committees

Item IV. i. PRP Decision Making Process – Policy Clarification (DECISION)

Context: NCRP is inherently an adaptive management process, with the PRP regularly refining processes, policies and practices based on new information, challenges and opportunities. The PRP regularly updates its decision making process to increase efficiency, better reflect the principles and policies of the NCRP, and to provide clear direction to staff and transparency to project proponents, stakeholders and funders. Staff understanding is that the PRP views its role as setting policy and criteria, approving decision making processes, as well as selecting priority projects for funding (with regular input from the TPRC, stakeholders and NCRP staff) so that staff may execute this direction in developing plans, funding applications and processes on behalf of the region. Further, all NCRP products – including plans, processes, and funding applications – are reviewed as drafts by the TPRC and PRP (and in many cases stakeholders) and staff respond to every comment or suggestion made, and outline the nature of the response in the revised work product. Since its inception, the PRP has formally approved a slate of priority implementation projects that have been reviewed by the TPRC, and has formally approved all PRP decision making processes. At times, the PRP has formed Ad Hoc committees to offer focused advice to NCRP staff and the PRP on particular processes or work products, and to make targeted decisions on behalf of the PRP. Examples of these include the Planning Ad Hoc Committee and the Project Review Ad Hoc Committee.

Issue: The current decision making **practice** (to date it has not been adopted by the PRP as a policy) has been to bring drafts of the funding applications, plans and processes to PRP meetings for approval prior to finalization/submittal. This takes place after PRP/TPRC/stakeholder review as outlined above.

Following is a list of issues that make this approach increasingly challenging:

- Funding opportunities are often volatile, unpredictable and extremely time sensitive (an example being the current DWR expedited drought funding round)
- there are significant challenges associated with obtaining PRP decisions in a timely fashion under Brown Act requirements, given that the PRP meets only quarterly and has approved in-person meetings as the standard;
- SCWA has provided funding for the substantial resource investment to support NCRP staff time required to coordinate NCRP meetings, and develop plans, funding applications and processes in support of the NCRP. Given the ambitious work load of the NCRP, these funds are increasingly constrained;
- Given that the PRP has established clear policy which staff incorporate into all NCRP plans, project applications and processes, this second step of formal approval of all plans and applications at PRP meetings is using limited staff resources and funding that may be better invested elsewhere;

NCRP Staff Recommendation:

- a) Per current practice, the PRP sets policy and criteria for decision making, funding applications and plan development.
- b) Per current practice, all prioritized implementation projects included in funding applications will be formally reviewed by the TPRC and formally approved by the PRP prior to inclusion in a grant application by staff;
- c) Per current practice, all changes to PRP decision making processes shall be formally approved by the PRP prior to implementation;
- d) Per current practice, NCRP staff (with support from Ad Hoc committees) will regularly anticipate the need for policy direction from the PRP and provide information upon which the PRP may make its policy decisions.
- e) Per current practice, NCRP staff will continue to integrate established PRP policy into all processes, funding applications and plan development
- f) Per current practice, NCRP staff will continue to solicit and respond to all input from PRP/TPRC members and comprehensively address that input within the framework of existing NCRP policy.
- g) Per current practice, the NCRP PRP would not adopt the NCIRWM Plan; the NCIRWM Plan will be formally adopted by participating Tribal Councils and County Board of Supervisors
- h) **Proposed new practice/policy:** when time is not a constraint, NCRP staff will agendize plans, processes, and project applications at a PRP/TPRC meeting for formal approval prior to finalization. When this is not feasible due to the challenges outlined under “issues”, above, NCRP staff will agendize the item for the next following PRP/TPRC meeting. The finalized plan,

process or project application will be discussed and any suggestions for future revisions incorporated.

Item IV. ii. Review composition of existing committees (DECISION)

Background: The Planning Ad Hoc Committee was formed by the PRP (see below for 2013 committee), and has provided invaluable advice to staff and the PRP on the development of the North Coast Integrated Regional Water Management Plan revision process, as well as the criteria for award of sub-contracts to local planning experts. The Project Review Ad Hoc Committee was formed by the PRP (see below for 2013 committee) and has provided invaluable advice to the PRP and NCRP staff on the project review and selection process criteria considered by the PRP.

Staff Recommendations:

- a) NCRP staff recommends the disbanding of the 2013 Planning Ad Hoc Committee and the convening of a 2014 Planning Ad Hoc Committee to provide advice on NCIRWM plan development as well as the planning elements that are part of the upcoming Strategic Growth Council grant.
- b) NCRP staff recommends the disbanding of the 2013 Project Review Ad Hoc Committee and the convening of the 2014 Project Review Ad Hoc Committee to continue to provide advice related to project review and selection process.

2013 Planning Ad Hoc Committee

Supervisor Marcia Armstrong, Siskiyou County
Supervisor Dan Gjerde, Mendocino County
Leaf Hillman, Karuk Tribe, Northern District
Supervisor Judy Morris, Trinity County
Javier Silva, Sherwood Valley Rancheria, Central District

2013 Project Review Ad Hoc Committee

Wayne Haydon, California Geologic Survey, Sonoma County
Supervisor John McCowen, Mendocino County
Sandra Perez, Five Counties Salmonid Conservation Program, Trinity County
Toz Soto, Karuk Tribe, Northern District

Item VIII. IRWM Proposition 84 2014 Drought Solicitation

Background: On January 17, 2014, Governor Edmund G. Brown proclaimed a [Drought State of Emergency](#) and on March 1, 2014, Governor Brown signed legislation to assist drought-affected communities and provide funding to better use local water supplies. The Governor and Legislature have directed DWR to expedite the solicitation and award of \$200 million (of the \$451 million remaining of Proposition 84 implementation funds) in IRWM funding to support projects and programs that provide immediate regional drought preparedness, increase local water supply reliability and the delivery of safe

drinking water, assist water suppliers and regions to implement conservation programs and measures that are not locally cost-effective, and/or reduce water quality conflicts or ecosystem conflicts created by the drought. To expedite the funding, DWR will be using a streamlined grant application process. The Draft 2014 IRWM Guidelines and that Draft 2014 Drought Proposal Solicitation Package were released on April 3, 2014 (see <http://www.water.ca.gov/irwm/grants/implementation.cfm>).

Item VIII. ii. IRWM 2014 Drought Solicitation Eligible Project Types

1. Provide immediate regional drought preparedness, per the Draft 2014 IRWM Guidelines:
Projects that effectively address long-term drought preparedness by contributing to sustainable water supply and reliability during water shortages. Drought preparedness projects do not include drought emergency response actions, such as trucking of water or lowering well intakes. Desirable proposals will achieve one or more of the following:
 - *Promote water conservation, conjunctive use, reuse and recycling*
 - *Improve landscape and agricultural irrigation efficiencies*
 - *Achieve long term reduction of water use*
 - *Efficient groundwater basin management*
 - *Establish system inerties*
 2. Increase local water supply reliability and the delivery of safe drinking water
 3. Assist water suppliers and regions to implement conservation programs and measures that are not locally cost-effective (present value of the local benefits of implementing a water conservation program or measure is less than the present value of the local costs of implementing that program or measure)
 4. Reduce water quality conflicts or ecosystem conflicts created by the drought
 5. Human Right to Water projects that ensure clean, affordable, and accessible water for human consumption, cooking, and sanitary purposes as a water supply reliability and delivery of safe drinking water
 6. Project Readiness: evidence that construction bids will be awarded by April 1, 2015
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Item VIII. iii. NCRP 2014 Drought Project Solicitation and Regional Application (DECISION)

Background: In response to drought legislation announced in March, PRP Chairman Mackenzie requested that staff send out a NCRP Memo and Inquiry regarding SB 103 and expedited IRWM Proposition 84 funding round for drought relief. A number North Coast communities responded declaring need for financial assistance for drought-related projects including projects in Sonoma County, Coverdale, Healdsburg, Redwood Valley, Mendocino County, Ukiah, Willits, Del Norte County, Trinity

County and Montague, Siskiyou County. The North Coast is home to 4 of the 17 communities listed by the California Department of Public Health as critically impacted by drought.

Recommendation: The NCRP Project Review Process Ad Hoc Committee recommends approval of the draft 2014 NCRP Project Review and Selection Process Guidelines and NCRP 2014 Drought Solicitation Project Application (see below & Attachment A) to allow for the commencement of the NCRP 2014 Drought Project Solicitation and Regional Grant Application which is expected to be due to DWR this summer (July). Staff proposes that the approval allow for minor changes made by staff with input from the ad hoc committee to the NCRP Project Review and Selection Process Guidelines and NCRP 2014 Drought Solicitation Project Application, to comply with the final DWR IRWM 2014 Guidelines and 2014 Drought Solicitation PSP. These changes will be communicated by staff to the TPRC and PRP. In addition, staff recommends that the Executive Committee submit a public comment letter to DWR regarding the draft DWR IRWM 2014 Guidelines and 2014 Drought Solicitation PSP by the due date of May 15. The comment letter may include a request that the due date for the regional application be extended to August and softening of eligibility requirements related to Plan review and CASGEM compliance.

Staff requests PRP review and consideration of two items or options:

Maximum amount of 2014 Expedited Drought Funding Round

Background: Of the \$451,153,710 remaining statewide of the Proposition 84 Implementation Funding, \$200 million will be available for the 2014 Drought Solicitation (44.3%). DWR intends to target the 2014 IRWM Drought funding to IRWM regions with the greatest drought impacts and has not set maximum amounts for each region for this round of funding. The remaining Proposition 84 allocation balance for the North Coast is \$19,747,939 and DWR ensures that the allocation schedule will be met by the conclusion of Proposition 84 IRWM Grant Program (expected to be in late 2015).

For PRP consideration: Set the maximum amount for the North Coast 2014 Drought Project Solicitation and Regional Grant Application to a ratio of the remaining North Coast Proposition 84 allocation to reflect the statewide ratio of 44.3% or \$8,748,369.

Regional Representation in Project Selection for remaining Proposition 84 Implementation Funding

Background: The NCRP Project Review and Selection Process Guidelines include PRP Directed Guidelines for Project Scoring and Selection to promote the implementation of NCRP goals while allowing the flexibility to address specific regional priorities and funding source requirements. These PRP Directed Guidelines include consideration of regional representation in project selection:

Regional Representation

The PRP will make every effort to ensure geographic representation by including projects from each of the seven counties and from the north, central and southern Tribal areas of the North Coast Region. This guideline will apply only to those projects which are eligible for funding under the NCRP and other state and federal requirements, and which have met the technical criteria established by the PRP and evaluated by the Technical Peer Review Committee.

For PRP consideration: To ensure regional representation in project selection for the remaining Proposition 84 Implementation Funding, consider the 2014 Drought Solicitation grant as phase one of two funding phases. During the final 2015 Proposition 84 Implementation Funding round, project selection will take into account the location of the NCRP 2014 Drought Projects, if funded.

NCRP Proposition 84 2014 Drought Solicitation schedule

- **February 26:** Assembly and Senate Pass Drought Relief Bills
 - **March:** new information about DWR's response to Drought Relief Funding legislation
 - **March:** Project Review Ad Hoc committee updates to Project Review Guidelines
 - **April 3:** DWR releases Draft Program Guidelines & Proposition 84, 2014 Drought Proposal Solicitation Package
 - **April 17 NCRP meeting:** incl. Plan discussion/approval of NCRP Project Review Guidelines, PRP preferences/criteria & 2014 Drought application approach/schedule
 - **April:** Ad-hoc committee and staff refine draft final NCRP Project Application and NCRP Project Review and Selection Process Guidelines. Final changes to the Project Application and Project Review and Selection Process Guidelines will be made based on PRP input once DWR final guidelines and Project Solicitation Package have been published in June.
 - **Late April – May:** NCRP project solicitation for 2014 IRWM Drought Grant Solicitation
 - **May 15:** Comment letter due to DWR regarding Draft Program Guidelines & Proposition 84, 2014 Drought Proposal Solicitation Package
 - **May – mid-June:** TPRC preliminary project evaluation conference call/meeting; TPRC project proposal review; TPRC project review meeting and selection of priority proposals
 - **Mid-June:** PRP consideration/amendment/approval of TPRC draft suite of priority North Coast projects for 2014 IRWM Drought Grant Solicitation
 - **July:** NCRP application due to DWR for 2014 IRWM Drought Grant Solicitation
 - **Late 2015:** Anticipated NCRP grant application due to DWR for remaining Proposition 84 IRWM Implementation grant funds
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NCRP Project Evaluation and Selection Process Guidelines

Background: At the April 2013 NCRP meeting, Wayne Haydon, TPRC Co-Chair provided a presentation about the outcomes from the TPRC IRWM Proposition 84 Round 2 Project Review Process De-brief meeting conducted on March 1, 2013 (<http://www.northcoastirwmp.net/docs.php?ogid=1000002449>). The PRP directed the Project Review Ad Hoc Committee to continue to refine the project review and selection process and Project Review and Selection Process Guidelines. In March 2014, the ad-hoc committee reviewed and refined sections of the Project Review and Selection Process Guidelines based on input from the TPRC project review de-brief meeting and the Draft 2014 IRWM Guidelines and Draft

2014 Drought Proposal Solicitation Package. The revised 2014 Project Review and Selection Process Guidelines and draft NCRP 2014 Drought Solicitation Project Application can be found as Attachment A.

Item IX. NCIRWM Plan, Version 3: Review and Content Development

Item IX. i. North Coast IRWM Plan schedule

Background: In November 2012, DWR released the final Integrated Regional Water Management Grant Program Guidelines for Proposition 84 and 1E. These guidelines describe the process, procedures and criteria DWR will use to implement the IRWM program including the regional plan standards and requirements. A revised and adopted North Coast Integrated Regional Water Management Plan (NCIRWM Plan) that is compliant to the IRWM program plan standards will be an eligibility requirement for the next rounds of Proposition 84 implementation funding. During the July 2013 NCRP meeting the PRP approved the schedule and general approach for the NCIRWM Plan review and input process. Following is a revised schedule:

- 2013: PRP/TPRC review draft annotated NCIRWM Plan outline
- May – June 2013: Public Review of Final draft annotated NCIRWM Plan outline
- May – June 2013: TPRC & PRP review of draft Sections 1 – 4 (Section 1, Intro and Planning Approach; Section 2, Governance and Coordination; Section 3, Stakeholder Involvement; Section 4, NCIRWMP Objectives)
- July 18, 2013 NCRP meeting: PRP consideration of Planning Ad Hoc Committee recommended approach for representing diverse views & local autonomy; Review NCIRWMP Goals and Objectives; Strategic Planning – Plan Financing & the Future of the NCRP
- October 2013: NCRP Conference & NCIRWM Plan public input
- March – April 2014: TPRC & PRP review of draft Sections 5 – 8 (Section 5, Regional Description; Section 6, Key Issues Impacting North Coast Waters and Watersheds; Section 7, Projects and Local Priorities, Section 8, Resource Management Strategies)
- April NCRP meeting: Review NCRP/NCIRWMP Goals and Objectives
- April/May: TPRC & PRP review of draft Sections 9 - 13 (Section 9, Relation to Local Land Use Planning; Section 10, Plan Implementation: Impact and Benefits; Section 11, Plan Performance; Section 12, Plan Financing and Ongoing IRWMP Implementation; Section 13, Data Management)
- May/June: TPRC & PRP review of Draft NCIRWM Plan (all sections including Appendices)
- May/June: Submit Draft NCIRWM Plan to DWR for review (60 day review)
- July: Draft NCIRWM Plan Public Review
- August: TPRC & PRP review of final NCIRWM Plan (all sections including Appendices)
- August - November: Final NCIRWM Plan & Adoption

Item V. iii. Finalize NCRP/NCIRWM Plan Goals and Objectives (DECISION)

GOAL 1: INTRAREGIONAL COOPERATION & ADAPTIVE MANAGEMENT

Objective 1 - Respect local autonomy and local knowledge in Plan and project development and implementation

Objective 2 - Provide an ongoing framework for inclusive, efficient intraregional cooperation and effective, accountable NCIRWMP project implementation

GOAL 2: ECONOMIC VITALITY

Objective 3 - Ensure that economically disadvantaged communities are supported and that project implementation enhances the economic vitality of disadvantaged communities.

Objective 4 - Conserve and improve the economic benefits of North Coast Region working landscapes and natural areas

GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT

Objective 5 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity

Objective 6 - Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

GOAL 4: BENEFICIAL USES OF WATER

Objective 7 - Ensure water supply reliability and quality for municipal, domestic, agricultural, cultural, and recreational uses while minimizing impacts to sensitive resources

Objective 8 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities

Objective 9 - Protect groundwater resources from over-drafting and contamination

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE

Objective 10 - Assess climate change effects, impacts, vulnerabilities, and strategies for local and regional sectors

Objective 11 - Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation

GOAL 6: PUBLIC SAFETY

Objective 12 - Improve flood protection and reduce flood risk in support of public safety

Item X. Updates

Item X. i. NCRP Planning Ad hoc Committee Report: proposal selection for planning sub-contracts to counties and Tribes

Eight high quality proposals were submitted with a total request of \$232,387, (almost twice the available total amount of \$120,000), in response to the Request for Proposals for the second round of funding for Local Planning to Supplement the North Coast IRWM Plan. The Planning Ad Hoc Committee reviewed the proposals and met on February 14, 2014 to discuss each proposal and review scores. The top ranked proposals were selected for funding. Below is a listing of the selected planning projects that includes the project sponsor, title, budget amount and brief description.

Siskiyou County: Small Community Service Provider Needs Analysis, Preliminary Engineering, and Recommendations for Regional Cost Sharing	\$40,000	The County is proposing to solicit and contract with a qualified engineering firm to prepare an assessment of need for six small community water and wastewater service providers located within economically disadvantaged areas of the County, develop a prioritization schedule for recommended repairs and improvements, and complete preliminary engineering for the highest priority repairs and/or improvements within each system. The engineering firm will also develop recommendations for a coordinated approach to common problems, as applicable, so that resources can be shared amongst affected service providers and result in cost savings for the region. It is anticipated that this approach will serve as a model for other service providers in the region and encourage cooperative approaches to common problems and facilitate mutually beneficial solutions.
Mendocino County Resource Conservation District: Mendocino County Water Emergency Preparedness for Underserved Districts	\$20,227	Mendocino County Resource Conservation District is applying on behalf of the County of Mendocino for North Coast IRWM funds to develop water emergency preparedness plans and long-term water conservation plans for underserved water districts in Mendocino County. This effort will assist the North Coast Regional Partnership in their planning efforts by creating capacity in the county to meet water emergencies. The project will provide a model which can be replicated by other underserved water districts in the North Coast. The MCRCD proposes to work with tribal and small rural water districts to: <ol style="list-style-type: none">1. identify priorities and assess their needs, help coordinate outreach efforts and assist them in adopting California Water Plan BMPs for water conservation;2. develop educational and outreach materials;3. conduct three workshops for reducing domestic water use with a focus on small agricultural producers and ranchettes;4. publish an on-line resource guide.
Northwest CA Resource Conservation & Development Council: Trinity County Water Resources Planning Proposal	\$29,778	This proposal would collect and synthesize the most recent pertinent information in order to assess current conditions relative to water resources. It would also identify recommendations to address current water resources needs for the County's review. Specifically, the Critical Water Resources designation in the Zoning Ordinance and relevant sections of the Subdivision Ordinance would be revised to ensure that adequate water supplies exist for proposed developments. The Council would work with community water providers to: engage in water conservation education and outreach; develop rate structures where cost recovery

to Supplement the NCIRWMP		<p>is proportional to water use; and develop increased or additional water supply sources from sustainable and low impact sources. Tasks:</p> <ol style="list-style-type: none"> 1. Review sections of the current County General Plan that address water resources. 2. Obtain and review current water master plans from community water providers. 3. Review “Water Resources Planning in the Mainstem Trinity River Watershed: A Pilot Local General Plan Process & Template of the NCIRWMP Planning Grant” 4. Synthesize the information from the County planning documents, community water providers’ water master plans, and the Water Resources Mainstem report to assess the current planning approaches for managing water resources within the county. 5. Develop recommendations for the County Planning Commission and Board of Supervisors 6. Develop recommendations for community water providers
Yurok Tribe Planning Department: Residential Land-use Policy Development Related to Water Use	\$29,995	<p>The Yurok Tribe is proposing to develop a land use policy related to surface water systems in relation to residential diversions with the goal of minimizing the impact to aquatic habitats and ensuring enhanced water quality. The policy will emphasize a synchronization of local land use needs and priority efforts to restore salmonid habitat on the Klamath River. Deliverables:</p> <ol style="list-style-type: none"> 1. GIS Data to include; residential locations with surface water systems, habitat priority areas, and water quality testing points; and 2. Estimated annual stream flow data for 16 creeks; and 3. Estimated annual diversion ranges; and 4. Land Use Policy for Water System Diversions with Limited Impact to Aquatic Habitat

Item X. ii. Updates: Executive Committee, PRP direction and staff action

EXECUTIVE COMMITTEE ACTION

The NCRP Executive Committee met on April 14, 2014 to review and discuss the April 17, NCRP meeting agenda and meeting materials

The NCRP Executive Committee met on August 26, 2013 to review and discuss the NCRP Conference agenda

PRP Chairman Mackenzie and Vice-chair Morris provided a presentation regarding the NCRP and the Proposition 50 implementation project benefits during a State Water Resources Control Board IRWM Workshop on March 4th in Sacramento.

PRP Chairman Mackenzie spoke at Assembly Member Rendon’s Water Bond Informational Hearing on February 7th in Eureka.

PRP Chairman Mackenzie requested that staff send out a NCRP Memo and Inquiry regarding SB 103 & expedited IRWM Proposition 84 funding round for drought relief; memo sent March 13, 2014

PRP Chairman Mackenzie requested that staff send out a NCRP update memo regarding upcoming events and RFPs; memo sent January 21, 2014.

The NCRP Executive Committee approved to sponsors the North Coast Tribal Water Forum held on October 1, 2013 in Loleta.

STAFF DIRECTION FROM NCRP MEETING, JULY 2013

Direct staff to compile comments and provide to PRP and TPRC for additional comments and input; memo was sent out on March 31, 2014

Direct staff to work with the Executive Committee to ascertain interest and invite new membership to the Project Review Ad Hoc Committee to ensure diversity. July 23, 2013

Planning Ad Hoc Committee directed staff to re-open the Local Planning to Supplement the North Coast IRWM Plan RFP process and include funded proposals as examples in the RFP. Staff was also directed to contact county & Tribal entities to offer assistance and guidance with the RFP. Round 2 RFP was sent out on January 2, 2014; report provided by Supervisor Morris during April NCRP meeting, Agenda item V. i.

Item XII. Next NCRP meeting date (DECISION)

The next quarterly meeting date is scheduled for July 17 to be located in Weaverville. Should the PRP choose to proceed with the NCRP 2014 Drought Project Solicitation and Regional Grant Application, the PRP will need to meet mid-June (June 12 or 19) to consider, amend and approve the TPRC draft suite of priority North Coast projects for 2014 IRWM Drought Grant Solicitation.

For PRP consideration of various options:

- Change next NCRP meeting date from July 17 to June 12, 13, 19, or 20th
- Hold the June meeting via conference call (in accordance with the Brown Act)
- Cancel July 17 NCRP meeting

Attachment A



North Coast Resource Partnership DRAFT Project Review and Selection Process Guidelines, 2014

Background

The North Coast Resource Partnership (NCRP) is committed to transparency, stakeholder inclusion and process improvement. At the July 21, 2011 NCRP meeting, the Policy Review Panel (PRP) directed the formation of an ad hoc committee comprised of PRP and Technical Peer Review Committee (TPRC) members and staff to evaluate the existing approach to project evaluation and ranking and to develop a draft approach for consideration at future NCRP PRP meetings. An on-line survey and interviews were conducted of ad-hoc committee members, TPRC members, and project proponents to gather information about the existing process and to make recommendations for improvement of the process. The interview summary and summary of recommendations can be found at <http://www.northcoastirwmp.net/docs.php?ogid=1000002175>. With this information as the basis, the ad-hoc committee developed the NCRP Project Review and Selection Process Guidelines. The Guidelines were used during the IRWM Proposition 84 Round 2 Implementation project solicitation. On March 1, 2012 the TPRC conducted a NCRP project review and selection process debriefing meeting and developed a listing suggested process improvements. These were presented to the PRP during the April 2012 NCRP quarterly meeting. The TPRC project review and selection process debriefing meeting summary and presentation can be found at <http://www.northcoastirwmp.net/docs.php?ogid=1000002449>.

Draft Schedule for NCRP Project Solicitation, Project Proposal Review and Selection Process in response to IRWM Proposition 84 Expedited Drought Implementation Project grant funding opportunity

- March – April 2014: The Project Review Ad-hoc Committee and staff refine the Project Review and Selection Process based on TPRC input; develop portions of the application, developed review and selection process based on the IRWM 2012 Guidelines and draft Proposition 84 Expedited Drought Implementation Proposal Solicitation Package (due to be announced by Department of Water Resources (DWR) on or about April 1, 2014.
- April 17, 2014 NCRP meeting: Report out of ad-hoc committee actions; PRP and TPRC review and provide direction and approve NCRP Project Review and Selection Process Guidelines, 2014
- April 2014: Ad-hoc committee and staff refine the final NCRP Project Application and NCRP Project Review and Selection Process Guidelines
- Late April – May 2014: NCRP project solicitation for IRWM Proposition 84 Expedited Drought Implementation Project grant funding
- May – mid-June: TPRC project review period & project review meeting; selection of priority proposals; a TPRC project evaluation conference call or meeting will be held prior to the TPRC project review period
- Mid-June: PRP consider/approve TPRC suite of Priority North Coast Projects for IRWM Proposition 84 Expedited Drought Implementation Project funding
- July: regional application due to DWR for IRWM Proposition 84 Expedited Drought Implementation Project grant funding
- Late 2015: Expected grant proposal for remaining Proposition 84 IRWM Implementation Grant funds

Description of the NCRP Project Evaluation Roles

Policy Review Panel

The [Policy Review Panel](#) (PRP) is the governing and decision-making body for the North Coast Resource Partnership (NCRP). The composition of the PRP and decision-making process is defined in Section 5.4 of the NCIRWMP [Memorandum of Mutual Understandings](#) (MoMU). The role of the PRP in the NCRP project review and selection process is to set the policy, decision making criteria and framework for the

process and to ensure that the process is fair, open and transparent. As the decision-making body, the PRP provides direction about how the project evaluation and selection process aligns with the NCRP priorities by defining project review and selection guidelines (*see PRP Directed Guidelines for Project Scoring and Selection section*). Taking into account review and recommendations from the Technical Peer Review Committee, the PRP approves all projects included in the NCRP and approves the region's highest priority projects for grant submittals. As defined in the MoMU, the PRP is subject to the Ralph M. Brown Act and is committed to transparency and inclusion, supporting input from stakeholders from throughout the region. All NCRP meetings are noticed in advance, open to the public, and all meeting summaries and information are posted on the NCRP website.

Technical Peer Review Committee

The [Technical Peer Review Committee](#) (TPRC) is advisory to the PRP and evaluates and makes recommendations based on technical expertise and scientific data. The composition of the TPRC is defined in the NCRP [MoMU](#) and is subject to the Ralph M. Brown Act. The role of the TPRC in the project review and selection process is to evaluate projects for technical merit based on their professional judgment and expertise, as well as on guidelines developed by the PRP and set by the funding solicitation. The TPRC prepares a draft suite of priority projects for review by the PRP. Scoring criteria and evaluation outcomes from the TPRC are available for public review.

NCRP Staff

The role of NCRP staff during the project application, review and selection process is to facilitate and ensure the integrity of the process. Staff develops and coordinates project application materials; performs outreach and makes information available to the PRP, TPRC and stakeholders; clarifies outstanding issues; makes sure decisions are understood; maintains records; consolidates and summarizes TPRC review of project grant applications, and performs fact checking of state guidelines and criteria as necessary. Per the direction of the PRP (NCRP meeting, July 2013) staff will support project proponents in coordinating and potentially integrating projects in the same watershed or project area (e.g., informing project proponents of opportunities to partner or gain economies of scope and scale by combining projects) where timing allows and in accordance with the source funding proposal process and eligibility requirements.

NCRP Project Application, Review & Selection Process

The NCRP project application, review and selection process is a multi-step process:

1. NCRP Projects, Preliminary Project Information

Project proponents will upload Preliminary Project information to the NCRP website on an ongoing basis; project proponents will submit a signed MoMU; staff will publish eligible NCRP Projects (*see On-Going Project Inclusion Process below*).

2. NCRP Project Solicitation, Supplemental Project Information

At the direction of the PRP and when there is a funding opportunity, a call for proposals will be announced to North Coast stakeholders. Staff will develop and make available Supplemental Project application materials based on the NCRP priorities and the funding source solicitation and requirements. The project application materials will include an application, detailed instructions and a clear description of scoring guidelines and evaluation criteria, all of which will be reviewed by the TPRC and PRP and approved by the PRP. Project proponents will provide application materials to NCRP staff via email. A Microsoft Word version of the NCRP project application will be made available for reference, for application development and for submittal to NCRP staff. Staff will provide outreach, education and technical assistance via workshops and informal meetings by phone, internet and in person.

3. Individual TPRC review of NCRP Project Applications

Staff will compile and provide application materials to the TPRC for review and scoring along with scoring/evaluation forms. When packaging the project application materials for each TPRC member, staff will randomize chronology of the project applications so that TPRC members are reviewing project applications in a different order. The TPRC members will individually review and score the NCRP project applications for technical merit based on criteria as defined by the funding solicitation, NCRP PRP defined guidelines (*see PRP Directed Guidelines for Project Scoring and Selection section*) and their professional expertise and judgment. A TPRC project evaluation conference call meeting will be held prior to the TPRC project review period to discuss the general review process and go over scoring definitions to ensure calibration and clarity. TPRC members will review all projects referred to them unless they recuse themselves due to a potential conflict of interest. TPRC members will provide individual scores to staff for compilation. Time allowance for the individual TPRC review of project applications will be at least 2 weeks depending on the proposal solicitation timeframe. If two weeks is not available, the Executive Committee will determine the suitable duration to meet grant solicitation needs.

4. Group TPRC review of NCRP Project Applications

Staff will compile all TPRC individual scores to determine an initial average project score. In adherence to a high standard of professional conduct, TPRC members and staff will meet to discuss each project and may make adjustments to their individual scores based on the group discussion. To ensure a comprehensive project proposal review process, TPRC member attendance is strongly encouraged at this meeting. Any necessary background information or project-level clarification will be provided to the TPRC by NCRP staff. Staff will compile all updated TPRC individual scores to determine an updated average project score. TPRC review meetings are open to project proponents and the public. The agenda at a formally noticed public meeting will include a thorough review of the NCRP Conflict of Interest Guidelines as well as time for comment from the public (*see Conflict of Interest and Public Input Guidelines sections below*). All meeting deliberations, project scores, applicant and public input and recusals will be recorded.

5. TPRC Selection of Draft Suite of NCRP Priority Projects

During the project review meeting, the TPRC will select a draft suite of NCRP Priority Projects and draft budget amounts for each project. The selection will be based on technical project scores, project scalability and potential funding allowance, as well as the overall balance of projects based on the PRP's defined guidelines for project selection (*see PRP Directed Guidelines for Project Scoring and Selection section*) and the collective ability of the projects to meet NCRP goals and be competitive for the funding opportunity. A contingency list of projects will also be developed for consideration in the event that a selected project could not move forward for inclusion into the regional application for any reason. All meeting deliberations, public input and Conflict of Interest recusals will be recorded in the meeting minutes.

6. PRP Review, Consideration and Final Approval of the Suite of NCRP Priority Projects

During a NCRP meeting, the PRP will review and amend the draft suite of NCRP Priority Projects recommended by the TPRC, along with the contingency list, and will approve a final suite of NCRP Priority Projects and contingency projects to forward to the funding entity. The PRP – comprised of elected public officials or their designees and elected Tribal representatives – will make their final decision based on TPRC recommendations, PRP guidelines and other factors that they believe represent the best interest of the North Coast region. For more information on the process by which PRP members are selected, refer to the NCIRWMP Memorandum of Mutual Understanding (MOMU). The NCRP Priority Projects list will be posted to the website and made available to the public. Project review scores and review meeting materials will be made available to the project proponents and to the general public, upon request.

7. NCRP Priority Project Application Materials for Regional Proposal

Depending on the source funding solicitation, NCRP Priority Project proponents will be asked to provide additional project information to include in a competitive regional application. Additional information may include, but not be limited to, a detailed work plan, budget, schedule, economic cost/benefits analysis, monitoring & performance measures and technical documentation that support the project. The timeframe to submit this additional information may be very short for expedited funding solicitations. In the event that additional information for a project cannot be provided within the requested timeframe, that project would not be able to be included in the regional application and another project would instead be selected from the contingency list. Where feasible, NCRP staff will provide technical assistance to project proponents who require it.

Once the regional application has been approved and selected for funding, individual project proponents will enter into an agreement, likely with the NCRP regional grant administrator, to implement each project. It is imperative that an agreement between a project proponent and the NCRP regional grant administrator be executed in a timely fashion, particularly with rounds of expedited funding. It will contain numerous conditions and default provisions. An example of a DWR grant agreement, from the latest Prop 84 Round 2 funding opportunity, is available online:

http://www.water.ca.gov/irwm/grants/docs/ResourcesLinks/ContractTemplates/GrantAgreementTemplate_P84R2_FINAL_2014_02.pdf. The terms of the agreement that will be used for this funding

opportunity will likely be similar. However, it is important to note that those specific terms have yet to be determined by DWR.

Preliminary Project information for all eligible projects will be published to the NCRP website on an ongoing basis as described in “*On-Going Project Inclusion Process*” below and included in the NCIRWM Plan.

Guidelines for Public Input and Project Proponent Input during the Project Review Process

All TPRC project review meetings will be noticed at least 72 hours in advance and will be open and welcoming to the public. A conference call-in number will be provided for project proponents so that they may listen to the meeting and provide input during the public comment period if desired. For expedited solicitations, the PRP may choose to suspend the public comment period at the TPRC project review meeting. The meeting agenda and background materials to be used in the TPRC's decision-making will be available at the meeting location, posted to the NCRP website 72 hours in advance of the meeting and mailed to any interested member of the public upon request.

All TPRC meeting agendas include time for public comment. Project proponents, interested stakeholders and members of the public will be invited to speak on any item on the TPRC's agenda during public comment. The TPRC may ask brief questions of the commenter for clarification, but will not engage in discussion or debate an issue with any member of the public. The TPRC Chair(s) may place time limits on public comment. Public comment and materials delivered to staff from the public will be published on the NCRP website.

In the event that the TPRC requests specific or detailed clarifying information from a project proponent, a request will be made to NCRP staff and conveyed to the project proponent for response. All requests for clarifying information and responses thereto will be documented and made available to the public via the NCRP website.

NCRP Conflict of Interest Policy

The NCRP Conflict of Interest Policy will follow the [California Fair Political Practices Commission](#) (FPPC) guidelines and the intent of the guidelines to address obligations under the Political Reform Act's conflict of interest rules.

Under the FPPC rules, when a member has a conflict of interest, that member must publicly disclose the specific nature of the conflict and recuse themselves (leave the room) during discussion on the item. The FPPC guidelines seek to prevent conflicts of interest in two ways - disclosure and recusal.

"No public official at any level of state or local government shall make, participate in making or in any way attempt to use his official position to influence a governmental decision in which he knows or has reason to know he has a financial interest." (Political Reform Act; Gov. Code Section 87100)

"Assets and income of public officials which may be materially affected by their official actions should be disclosed and in appropriate circumstances the officials should be disqualified from acting in order that conflicts of interest may be avoided." (Gov. Code section 81002)

During the NCRP project review and selection process, TPRC and PRP members will disclose any potential financial interest in a project. If a TPRC or PRP member has a potential conflict of interest, they will be expected to recuse themselves (leave the room) from making, participating in or in any way influencing a project scoring or selection decision.

In the interest of transparency, TPRC and PRP members will also disclose any history of contribution to the project including input in the grant development or project planning or other involvement that could potentially represent a real or perceived conflict of interest. Once disclosed, the TPRC and PRP member will determine whether these actions constitute a conflict of interest or will prevent an objective review of the NCRP implementation project(s) and will determine if recusal is necessary. The PRP or TPRC member may wish to request the advice of their colleagues on the PRP or TPRC to make their determination.

Opportunities for disclosure and reporting will occur during the individual TPRC review of NCRP projects, during the group TPRC project review and during the TPRC and PRP selection meetings. The project score sheets will include a checklist and comment box for TPRC members to disclose potential conflict of interest. Project review score sheets and meeting notes will document any conflict of interest disclosures and recusals. In addition, the TPRC Chair, or his/her designee, will be selected to provide oversight during the project review meetings and act as a facilitator of TPRC discussion should conflict of interest issues arise. The TPRC Chair, or his/her designee, will be supported by staff to ensure the process adheres to the Conflict of Interest Policy established by the PRP.

On-Going Project Inclusion Process into the NCIRWM Plan

Background

Increasingly, funding opportunities for project implementation require or give preference to projects that are included in an IRWM Plan. The following process will provide a mechanism for including projects on an on-going basis into the NCIRWM Plan.

1. Project proponents will complete preliminary on-line project information:

- Project Name
- Organization Name, Type & Contact information
- Project location address (for mapping purposes)

- Funding Program names
 - Total project cost & Funding request
 - Start/End dates (tentative)
 - Alignment with NCIRWMP Objectives (selection boxes)
 - Project Summary & Goals
 - Project partners
 - Description of benefits (including if/how the project will benefit DACs)
 - Project management strategies/ project elements (selection boxes)
2. Project proponent will submit a signed MoMU
 3. Staff will review the project and follow-up with project proponents regarding any eligibility concerns (Urban Water Management Plan, Agricultural Water Management, Surface Water Diverter, Groundwater Management Plan, CASGEM compliance, proponent type)
 4. The TPRC will review and accept eligible projects
 5. Staff will 'Publish' eligible NCRP Projects; project summaries will be included on the website; project locations will be included on the interactive map; and staff will report to the PRP at a NCRP meeting
 6. Additional project information will be required when funding solicitations and calls for proposals occur; NCRP project proponents will be allowed to edit preliminary project upload information.
 7. NCRP Projects will be reviewed and scored by the TPRC if required by a respective funding solicitation; NCRP Priority Projects will be selected by the PRP. NCRP Priority Project proponents may need to adopt the NCIRWM Plan when completed as per the IRWM Guidelines.
-

Project Budget Under-runs and Funding Reallocation Process

Background: In some cases, a NCRP implementation project may complete under budget or otherwise not expend their entire grant allotment. Typically the funding agencies have allowed reallocation of funds to another project *within the suite* of projects included in the grant agreement for additional work toward the project. In previous instances where there has been funding to reallocate, the PRP has reallocated the funding to the projects within the county where the under-budget project occurred. The PRP members from that county have in turn determined how to reallocate the money to project(s) within that county.

It is expected that with current and future funding there will be projects that are completed under-budget and/or will have remaining funds to reallocate.

NCRP Project Funding Reallocation Process

1. The project funding reallocation will occur within the County where the original project is located and is within the existing suite of projects in the grant agreement.

2. PRP members from the County and Tribal region where the original project is located will determine which projects receive reallocation and the amount of funding
 3. If the County of origin option is not available (i.e., no projects from the County of origin within the project suite need additional funding):
 - a. Staff will announce the availability of funds to project proponents within the grant agreement suite of projects; staff will solicit project requests and description of need from eligible project proponents
 - b. Staff will determine eligible projects
 - c. TPRC ad-hoc committee will be formed (at NCRP meeting if timing allows)
 - d. Ad-hoc committee will develop criteria for project reallocation selection
 - e. Ad-hoc committee will develop project reallocation option recommendations
 - f. TPRC will review ad-hoc committee option recommendations
 - g. PRP will review and approve recommendations at the next PRP meeting
 - h. TPRC ad-hoc committee will be disbanded
 4. Future grant applications: During the TPRC and PRP review process, projects will be identified to receive priority should additional funding become available; priority will be given to projects within the County where the original projects are located.
-

PRP Directed Guidelines for Project Scoring and Selection

Background

The intent of the following PRP-directed project scoring and selection guidelines is to promote the implementation of NCRP goals while allowing the flexibility to address specific regional priorities and funding source requirements. These guidelines are in addition to those defined by the NCRP goals & objectives and IRWM Program or other funding source guidelines and scoring criteria. The PRP includes the following preferences and priority considerations in its decision-making process:

Regional Representation

The PRP will make every effort to ensure geographic representation by including projects from each of the seven counties and from the north, central and southern tribal areas of the North Coast Region. This guideline will apply only to those projects which are eligible for funding under the NCRP and other state and federal requirements, and which have met the technical criteria established by the PRP and evaluated by the Technical Peer Review Committee.

Economically Disadvantaged Community (DAC) ¹

In an effort to build capacity and extend services to communities that are under-served and/or limited by economic barriers, the TPRC will include screening criteria that will confer additional weight to

¹ *Definition for Economically Disadvantaged Community (DAC)*: Department of Water Resources defines "disadvantaged community" as a community with an annual household income that is less than 80% of the statewide annual median household income*

projects that, in addition to meeting other NCRP criteria, will benefit North Coast DACs. The PRP reserves the right to prioritize DAC projects, based on a project's ability to mitigate threats to public health, watershed health, and the economic and public health benefits that project implementation would bring to these communities.

Jurisdictional Notification & Coordination

Project proponents are required to demonstrate that they have notified counties and Tribes re: proposed projects in the proposed project impact area of a particular watershed or relevant area of County or Tribal interest. Project applicants are required to demonstrate coordination and outreach to potentially interested stakeholders in the relevant watershed, sub-watershed or project impact area.

Programmatic Integration and Balance of Project Type to effectively implement NCRP goals

NCRP goals: To support local autonomy and encourage cooperation; enhance public health & economic vitality in disadvantaged communities; restore salmon populations; enhance beneficial uses of water; and promote energy independence, emissions reductions and climate change adaptation.

- a) All project types should address grant requirements and NCRP goals and priorities
- b) Programmatic integration and project type diversity will be achieved at the portfolio level - (e.g. small /individual projects not required to demonstrate integration of all priorities, yet they must contribute to a comprehensive suite of projects that achieve a multi-benefit, integrated program)
- c) Programmatic integration and project type diversity will be achieved over time and through multiple rounds of funding
- d) Projects that provide multi-benefits will be prioritized (where all else is equal)
- e) Projects that address specific targets as identified by the PRP, including specific North Coast objectives, challenges and opportunities (e.g., promote biomass-related projects, effective in-stream flow approaches, energy retrofits, drought or flood preparedness, effective instream flow approaches or specific funding opportunities) may be prioritized by the PRP.



North Coast Resource Partnership

2014 IRWM Drought Grant Solicitation Project Application - DRAFT

*The North Coast Resource Partnership (NCRP) Implementation Project Application Instructions and additional information can be found at the **NCRP Implementation Project Solicitation** webpage. Please fill out grey text boxes and select all the check boxes that apply to your project. **It is important to save the application file with a distinct file name that references the project name. When the application is complete, please email the application to kgledhill@westcoastwatershed.com***

***Project Applications will be accepted until 5:00 pm, May XX.** The project application will be closed at this date/time and edits to project applications and/or new project applications will no longer be accepted.*

*Application responses should be clear, brief and succinct. Character limits are provided and include spaces. **If you have questions, need additional information or technical assistance please contact Katherine Gledhill at kgledhill@westcoastwatershed.com or 707.795.1235.***

It should be noted that because 2014 Integrated Regional Water Management (IRWM) Drought Grant Solicitation funded by Proposition 84 implementation grant funding opportunity is an expedited solicitation, additional information will be required of proponents whose projects are recommended for funding by the NCRP Policy Review Panel. This additional information will need to be submitted within two weeks after project proponents have been notified about funding recommendations for their projects. For more information, refer to the section "NCRP Priority Project Application Materials for Regional Proposal".

Preliminary Implementation Project Information

Organization Information

1. Organization Name: _____

2. Address (City, County, State, Zip Code):

3. Contact Name/Title

- a) Name: _____
- b) Title: _____
- c) Email: _____
- d) Phone Number (include area code) : _____

4. Organization Type

- ☐ Public Agency
- ☐ Nonprofit Organization
- ☐ Tribe
- ☐ Other: _____

General Project Information

1. Project Name: _____

2. Project Description/Summary [2000 characters max.]

3. Specific Project Goals/Objectives

[for each goal list specific objectives]

Goal 1: _____

Goal 1 Objective: _____

Goal 1 Objective: _____

Goal 1 Objective: _____

Goal 1 Objective: _____

Goal 2: _____

Goal 2 Objective: _____

Goal 2 Objective: _____

Goal 2 Objective: _____

Goal 2 Objective: _____

Goal 3: _____

Goal 3 Objective: _____

Goal 3 Objective: _____

Goal 3 Objective: _____

Goal 3 Objective: _____

Goal 4: _____

Goal 4 Objective: _____

Goal 4 Objective: _____

Goal 4 Objective: _____

Goal 4 Objective: _____

Additional Goals & Objectives (List)

4. Projected Project Start Date: _____

5. Anticipated Project End Date: _____

6. Funding Type

- ☐ Loan
☐ Grant
☐ Other

7. List Potential Funding Program Name(s)

8. Project Type:

- ☐ Water supply
☐ Water quality
☐ Flood management
☐ Watershed and ecosystem enhancement
☐ Planning
☐ Community Education
☐ Monitoring/Assessment
☐ Other: _____

9. Current Project Phase:

- ☐ Feasibility Study
☐ Planning
☐ Environmental Documentation & CEQA
☐ Permitting
☐ Implementation / Construction
☐ Maintenance
☐ Monitoring
☐ Other: _____

10. Project Elements

[select all that apply]

- ☐ Water supply reliability, water conservation and water use efficiency
☐ Storm water capture, storage, clean-up, treatment, monitoring and management
☐ Water banking, exchange, reclamation and improvement of water quality
☐ Non-point source pollution reduction, management and monitoring
☐ Groundwater recharge and management projects
☐ Contaminant and salt removal through reclamation, desalting, and other treatment technologies and conveyance of reclaimed water for distribution to users
☐ Planning and implementation of multipurpose flood management programs
☐ Removal of invasive non-native species, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands

- ☐ Watershed protection and management
- ☐ Drinking water treatment and distribution
- ☐ Ecosystem and fisheries restoration and protection
- ☐ Critical water quality or supply enhancement for Economically Disadvantaged Communities
- ☐ Stormwater management to reduce flood damage
- ☐ Monitoring / assessment of resources
- ☐ Other: _____

11. Statewide Priorities

[select all that apply] [for more information see [IRWM Program Guidelines](#)]

Drought Preparedness

- ☐ Promote water conservation, conjunctive use, reuse and recycling
- ☐ Improve landscape and agricultural irrigation efficiencies
- ☐ Achieve long term reduction of water use
- ☐ Efficient groundwater basin management
- ☐ System interties

Use and Reuse Water More Efficiently

- ☐ Increase urban and agricultural water use efficiency measures such as conservation and recycling
- ☐ Capture, store, treat, and use urban stormwater runoff (such as percolation to usable aquifers, underground storage beneath parks, small surface basins, domestic stormwater capture systems, or the creation of catch basins or sumps downhill of development)
- ☐ Incorporate and implement low impact development (LID) design features, techniques, and practices to reduce or eliminate stormwater runoff

Climate Change Response Actions

- ☐ Adaptation to Climate Change: Advance and expand conjunctive management of multiple water supply sources
- ☐ Adaptation to Climate Change: Use and reuse water more efficiently
- ☐ Adaptation to Climate Change: Water management system modifications that address anticipated climate change impacts
- ☐ Adaptation to Climate Change: Establish and enhance migration corridors, re-establish river-floodplain hydrologic continuity, re-introduce anadromous fish populations to upper watersheds, and enhance upper watershed forests and meadow systems
- ☐ Reduction of Greenhouse Gas (GHG) Emissions: Reduce energy consumption of water systems and uses
- ☐ Reduction of Greenhouse Gas (GHG) Emissions: Use cleaner energy sources to move and treat water
- ☐ Reduce Energy Consumption: Water use efficiency
- ☐ Reduce Energy Consumption: Water recycling
- ☐ Reduce Energy Consumption: Water system energy efficiency
- ☐ Reduce Energy Consumption: Reuse runoff

Expand Environmental Stewardship

- ☐ Expand Environmental Stewardship to protect and enhance the environment by improving watershed, floodplain, and instream functions and to sustain water and flood management ecosystems.

Practice Integrated Flood Management

- ☐ Better emergency preparedness and response
- ☐ Improved flood protection
- ☐ More sustainable flood and water management systems

- ☐ Enhanced floodplain ecosystems
- ☐ LID techniques that store and infiltrate runoff while protecting groundwater

Protect Surface Water and Groundwater Quality

- ☐ Protecting and restoring surface water and groundwater quality to safeguard public and environmental health and secure water supplies for beneficial uses
- ☐ Salt/nutrient management planning as a components of an IRWM Plan

Improve Tribal Water and Natural Resources

- ☐ Improve Tribal Water and Natural Resources and include the development of Tribal consultation, collaboration, and access to funding for water programs

Ensure Equitable Distribution of Benefits

- ☐ Increase the participation of small and disadvantaged communities in the IRWM process.
- ☐ Develop multi-benefit projects with consideration of affected disadvantaged communities and vulnerable populations.
- ☐ Address safe drinking water and wastewater treatment needs of DACs.
- ☐ Address critical water supply or water quality needs of California Native American Tribes within the region.

Project Funding

1. Total Funds for Planning / Design: _____

Select the source of these funds:

- ☐ Local
- ☐ State
- ☐ Federal

Select the status of these funds:

- ☐ N/A
- ☐ Received and Date when funds were received: _____
- ☐ Pending and Date when funds were requested: _____
- ☐ Have not applied

2. Total Funds for Environmental Compliance/ Mitigation / Permitting: _____

Select the source of these funds:

- ☐ Local
- ☐ State
- ☐ Federal

Select the status of these funds:

- ☐ N/A
- ☐ Received and Date when funds were received: _____
- ☐ Pending and Date when funds were requested: _____
- ☐ Have not applied

3. Total Funds for Construction/ Implementation & Monitoring: _____

Select the source of these funds:

- ☐ Local

- ☐ State
- ☐ Federal

Select the status of these funds:

- ☐ N/A
- ☐ Received and Date when funds were received: _____
- ☐ Pending and Date when funds were requested: _____
- ☐ Have not applied

4. **Total Funds Requested:** _____

Collaborative Partnerships

1. **List all collaborating partners and agencies and nature of collaboration:**

Project Location

1. **Project Location Description :**

2. **Site Address (if relevant) :**

3. **Mapped Location**

- a) County(s) : _____
- b) City(s) : _____
- c) Stream(s) : _____

4. **Is this project located in a Disadvantaged Community?** [\[View layer from North Coast maps\]](#)

- ☐ Entirely
- ☐ Partially
- ☐ No

List the Disadvantaged Community(s)

Project Strategies and Benefits

1. **Project Benefits**

[select all that apply]

Increase Water Supply

- ☐ Increased water supply or range in water supply (i.e. acre-feet per year)
- ☐ Improved water quality
- ☐ Increased recreational opportunities
- ☐ Decreased reliance on imported water
- ☐ Reduced groundwater overdraft
- ☐ Creation of wetlands and riparian habitat

- ☐ Decreased operational costs
- ☐ Other _____

Water Quality Improvement

- ☐ Increased water supply
- ☐ Improved aquatic and wetland species habitat and populations
- ☐ Increased cropland production
- ☐ Creation of wetlands and riparian habitat
- ☐ Improved recreation opportunities
- ☐ Decreased treatment costs
- ☐ Other _____

Groundwater Improvements

- ☐ Improved flood protection
- ☐ Decreased reliance on imported water
- ☐ Reduced surface water use, reduced pumping costs
- ☐ Decreased or prevention of groundwater overdraft
- ☐ Other _____

Water Conservation and Reuse

- ☐ Increased water saving
- ☐ Efficient reuse of wastewater
- ☐ Costs savings from reduced purchases of imported water
- ☐ Saving construction of water storage facilities
- ☐ Increased nutrient levels for plant and crop use from use of reclaimed wastewater
- ☐ Other _____

Watershed Rehabilitation

- ☐ Long-term sediment reduction and temperature improvements
- ☐ Reduced surface water nutrient and bacteria concentrations (improved water supply quality)
- ☐ Improved fish and wildlife habitat and passage
- ☐ Enhanced public safety and recreational opportunities
- ☐ Instream rehabilitation to redress hydromodification
- ☐ Other _____

Habitat Improvement

- ☐ Reduced surface water nutrient and bacteria concentrations (improved water supply quality)
- ☐ Enhanced fish habitat
- ☐ Increased opportunities for recreational hunting and viewing
- ☐ Increased numbers of native species
- ☐ Reduced flood risks
- ☐ Education opportunities
- ☐ Other _____

Flood Management

- ☐ Increased aquifer recharge
- ☐ Runoff reduction
- ☐ Improved surface water quality

- ☐ Natural resources preservation and restoration
- ☐ Reduced risk to life and property
- ☐ Decreased flood insurance costs
- ☐ Other _____

2. Describe how your project benefits the Economically Disadvantaged Communities it serves: [1000 character max.]

3. North Coast Integrated Regional Water Management Objectives

[for more information see the [North Coast Integrated Regional Water Management Plan](#)]

Check any of the following that apply to your project:

- ☐ Conserve and enhance native salmonid populations by protecting and restoring required habitats, water quality and watershed processes
- ☐ Protect and enhance drinking water quality to ensure public health
- ☐ Ensure adequate water supply while minimizing environmental impacts
- ☐ Support implementation of Total Maximum Daily Loads (TMDLs), the North Coast Regional Water Quality Control Board's (NCRWQCB) Watershed Management Initiative, and the Non-Point Source Program Plan
- ☐ Address environmental justice issues as they relate to disadvantaged communities, drinking water quality and public health
- ☐ Provide an ongoing, inclusive framework for efficient intra-regional cooperation, planning and project implementation
- ☐ Implement energy independence, greenhouse gas emissions or climate change adaptation project elements

4. Describe how your project addresses the North Coast IRWM Objectives selected [1000 characters max.] _____

5. List the impaired water bodies (303d listing) that your project benefits:

[1000 character max.] [for more information, see [maps](#) and [SWRCB](#) & [EPA](#)]

6. Select the other sensitive habitat areas your project benefits.

[select all that apply] [see [North Coast maps](#)]

- ☐ Riparian corridors
- ☐ Perennial and intermittent streams
- ☐ Wetlands
- ☐ Lakes and ponds and adjacent shore habitat
- ☐ Marine habitats
- ☐ Coastal tide lands and marshes
- ☐ Coastal and offshore areas containing breeding or nesting sites
- ☐ Native grassland
- ☐ Serpentine chaparral/grassland
- ☐ Cypress woodland

- ☐ Oak woodland
- ☐ Redwood forest
- ☐ Areas used for ecological scientific study and research
- ☐ Existing wildlife refuges and reserves
- ☐ Habitats supporting rare, endangered, threatened and endemic species (CNPS, State, Federal)

7. Select the Areas of Biological Significance (ASBS), Marine Protected Areas (MPA) and Critical Coastal Areas (CCA) that your project benefits:

[select all that apply] [for more information, see [maps](#) and [CCA](#), [MPA](#) & [ASBS](#)]

Critical Coastal Area:

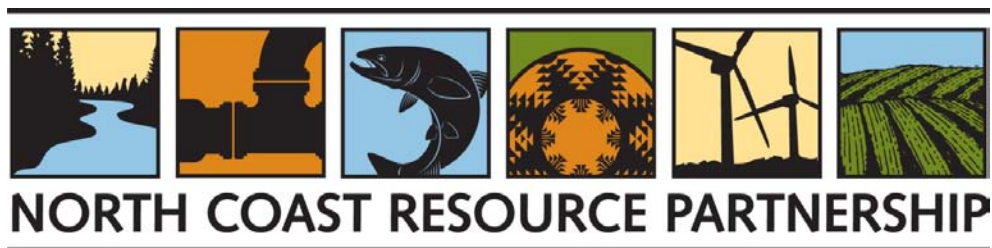
- ☐ Klamath River
- ☐ Redwood Creek
- ☐ Redwood National Park
- ☐ Trinidad Head
- ☐ Mad River
- ☐ Eel River
- ☐ Mattole River
- ☐ King Range
- ☐ Pudding Creek
- ☐ Noyo River
- ☐ Jughandle Cove
- ☐ Big River
- ☐ Albion River
- ☐ Navarro River
- ☐ Garcia River
- ☐ Saunders Reef
- ☐ Del Mar Landing
- ☐ Gerstle Cove
- ☐ Estero Americano
- ☐ Estero de San Antonio

California Marine Protected Area:

- ☐ Punta Gorda
- ☐ MacKerricher
- ☐ Point Cabrillo
- ☐ Russian Gulch
- ☐ Van Damme
- ☐ Manchester and Arena Rock
- ☐ Del Mar Landing
- ☐ Salt Point
- ☐ Gerstle Cove
- ☐ Fort Ross
- ☐ Sonoma Coast
- ☐ Bodega

Areas of Special Biological Significance:

- ☐ Bodega Marine Life Refuge
- ☐ Del Mar Landing Ecological Reserve
- ☐ Gerstle Cove
- ☐ Kelp Beds at Saunders Reef
- ☐ Kelp Beds at Trinidad Head
- ☐ Kings Range National Conservation Area
- ☐ Pygmy Forest Ecological Staircase
- ☐ Redwood National and State Parks



Supplemental Implementation Project Information

Organization Information

1. **Project Name:** _____
2. **Authorized Representative (if different from the contact name)**
 - a) Name: _____
 - b) Title: _____
 - c) Email: _____
 - d) Phone Number (include area code) : _____
3. **Has your organization implemented similar projects in the past?** ☐ yes ☐ no
Please describe previous similar projects.

4. **List all projects your organization is submitting to the North Coast IRWMP in order of priority.**

5. **Organization Information Notes:**

Project Information

1. **Project Type under 2014 IRWM Drought Grant Solicitation**
[select all that apply]
 - ☐ Provide immediate regional drought preparedness (See Table 1 of the 2014 IRWM Drought Guidelines for a definition of drought preparedness).
 - ☐ Increase local water supply reliability and the delivery of safe drinking water.
 - ☐ Assist water suppliers and regions to implement conservation programs and measures that are not locally cost-effective. (For more information on what is considered cost-effective, see page 18 of the DWR Project Solicitation Package.)
 - ☐ Reduce water quality conflicts or ecosystem conflicts created by the drought.
2. **Water Conservation Law Compliance**
[Compliance with Water Conservation Laws link: <http://www.water.ca.gov/wateruseefficiency/finance>]

Groundwater Management Plan

- a) Is your organization required to file a Groundwater Management Plan (GWMP)?
☐ yes ☐ no
- b) If Yes, has your organization completed a Groundwater Management Plan?
☐ yes ☐ no
- c) If Yes, when was the GWMP adopted? _____

CA Statewide Groundwater Elevation Monitoring (CASGEM)

- a) What is the priority of the project's groundwater basin(s)? [Refer to the CASGEM Basin Prioritization http://www.water.ca.gov/groundwater/casgem/basin_prioritization.cfm]
☐ high ☐ medium ☐ low ☐ very low
- b) If the project's groundwater basin(s) is considered to be a high or medium priority and does not have a CASGEM monitoring entity, is your organization a potential monitoring entity as described in CWC Section 10927?
☐ yes ☐ no
- c) If Yes, has a monitoring entity already been proposed that is in the process of being established for the relevant basin(s)?
☐ yes ☐ no
If so, please describe? _____

Urban Water Management Plan

- a) Is your organization required to file an Urban Water Management Plan (UWMP)?
☐ yes ☐ no
[Definition of entity that is required to file an UWMP with DWR: water supplier of more than 3,000 customers or supplying more than 3000 acre-feet annually].
- b) If Yes, list the date the UWMP was approved by DWR: _____
- c) Is your UWMP in compliance with AB 1420 requirements?
☐ yes ☐ no
- d) Does the urban water supplier meet the water meter requirements of CWC 525?
☐ yes ☐ no

Agricultural Water Management

- a) Is your organization – or any organization that will receive funding from the project – required to file an Agricultural Water Management Plan (AWMP)?
☐ yes ☐ no
[Definition of an agricultural water supplier: a water supplier, either publicly or privately owned, providing water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water. This includes a supplier or contractor for water regardless of the basis of right that distributes or sells water for ultimate resale to customers.]
- b) If Yes, list date the AWMP was approved by DWR: _____
- c) Does the agricultural water supplier(s) meet the requirements in CWC Part 2.55 Division 6?
☐ yes ☐ no

Surface Water Diversions

- a) Is your organization required to file surface water diversion reports per the requirements in CWC Part 5.1 Division 2?
☐ yes ☐ no
- b) If Yes, list date the surface water diversion report was submitted to DWR: _____

3. Drought Impacts

- a) Describe the water management impacts within the region due to the 2014 Drought and any anticipated or projected impacts if drought or dry year conditions continue into 2015: [500 characters max.]
- _____
- b) Describe the water conservation measures/restrictions, mandatory or voluntary, that have been implemented as a result of the 2014 Drought. Include supporting documentation, such as copies of local drought declarations or conservations directives. Discuss any planned or anticipated actions if drought or dry year conditions continue into 2015: [500 characters max.]
- _____

- c) Drought & IRWM Elements

Indicate which elements is addressed by the project:

Drought Project Element		Check if Addressed
D.1	Provide immediate regional drought preparedness	
D.2	Increase local water supply reliability and the delivery of safe drinking water	
D.3	Assist water suppliers and regions to implement conservation programs and measures that are not locally cost-effective	
D.4	Reduce water quality conflicts or ecosystem conflicts created by the drought	
IRWM Project Element		
IR.1	Water supply reliability, water conservation, and water use efficiency	
IR.2	Stormwater capture, storage, clean-up, treatment, and management	
IR.3	Removal of invasive non-native species, the creation and enhancement of wetlands, and the acquisition, protection, and restoration of open space and watershed lands	
IR.4	Non-point source pollution reduction, management, and monitoring	
IR.5	Groundwater recharge and management projects	
IR.6	Contaminant and salt removal through reclamation, desalting, and other treatment technologies and conveyance of reclaimed water for distribution to users	
IR.7	Water banking, exchange, reclamation, and improvement of water quality	
IR.8	Planning and implementation of multipurpose flood management programs	
IR.9	Watershed protection and management	
IR.10	Drinking water treatment and distribution	
IR.11	Ecosystem and fisheries restoration and protection	

- d) Describe how the selected drought elements above are addressed by the project and how it can be considered as one or more of the four eligible project types (Item 1 above), and why expedited funding is needed: [500 characters max.]
- _____

4. If your project addresses additional or new water supply, describe what has been done to conserve water within the project area of impact: [500 character max.]

5. If your project includes water conservation as an element, describe how you will ensure that the water savings are used for the stated beneficial uses: [500 character max.] _____

6. **Project Schedule & Readiness**

- a) On what date will the project be ready to proceed to construction/implementation? [For construction projects, "ready to proceed" means that construction bids have been awarded by the specified date.]

7. **Describe the population served by this project.** [500 characters max.] _____

8. **Describe the location of the project**

- a) Geographical Information (latitude and longitude in degrees, minutes, and seconds):
b) Project Area Map: Attach a map that shows, as applicable, the project's geographical location and the surrounding work boundaries, facilities of the project, the water resources (groundwater or surface water) that will be affected, DACs within the project service area, and proposed monitoring locations.

9. **Describe the financial need for the project (i.e. describe why the project cannot be completed with the existing financial resources of the project proponent, landowner and/or beneficiary):** [500 characters max.] _____

10. **Describe the basis for the costs used to derive the project budget. Include the source of the unit cost estimates used. Also, explain any costs that are higher than the average market value. If labor costs are higher than those required by prevailing wage, explain why and what those labor costs are based on.** [750 characters max.] _____

11. **Describe local and/or political support for this project:** [500 characters max.] _____

12. **Describe collaboration for this project with the groups listed on page 6 of the first part of this application under "Collaborative Partnerships".** Note that selected projects may be requested to submit letters of support or suitable written documentation from Counties and Tribes. [500 characters max.] _____

- a) Are there similar efforts being made by other groups? ☐ yes ☐ no
If so, please describe? [250 characters max.] _____

- b) Briefly describe the kind of outreach and collaboration that has been done with the County(ies) and/or Tribes for the project: [250 characters max.] _____

13. **Will this project mitigate an existing or potential Cease and Desist Order or other regulatory compliance enforcement action?** ☐ yes ☐ no
If so, please describe? [500 characters max.] _____

14. Will the project impact groundwater? ☐ yes ☐ no
If so, please describe? [500 characters max.]

15. What level of CEQA does your project require?

Please note that because this solicitation is for state funding, CEQA will be required. Select the type of documentation:

- ☐ Initial Study
- ☐ Environmental Impact Report (EIR)
- ☐ Environmental Impact Statement (NEPA/Federal involvement)
- ☐ Mitigated Negative Declaration
- ☐ Negative Declaration
- ☐ Environmental Assessment
- ☐ Exempt
- ☐ N/A - not a CEQA Project

Date or anticipated data for CEQA compliance: _____

State Clearinghouse Number: _____

16. Does your project require NEPA? ☐ yes ☐ no

Date for NEPA completion: _____

17. Are other permits required for this project? ☐ yes ☐ no

If yes, please list:

18. If there are any potential adverse physical effects from the project, please describe:

19. Is this project integrated into existing local, watershed, basin/regional plans or reports?

☐ yes ☐ no

If so, please list plans or reports [list format: Document name, Author, Published date]:

20. List any studies and designs completed for the project. These will need to be submitted electronically with this application. [500 characters max.]

21. Describe the scientific and technical basis for your project: [1000 characters max.]

22. Summarize the work completed and immediate outcomes of the project:

Water Supply & Conservation

- a) Quantity and type of new storage or delivery infrastructure built [200 characters max.]:
- b) Number and type of water users provided with water [150 characters max.]:
- c) Acre-feet of water leased/purchased:
- d) Quantity and type of stormwater capture infrastructure built [500 characters max.]:
- e) Quantity and type of grey/reclaimed water infrastructure built [500 characters max.]:

- f) Other water supply and/or conservation measure completed – include quantity [500 characters max.]:

Water Quality

- a) Water and/or wastewater treatment projects
- i. Quantity and type of water treatment infrastructure built or installed [500 characters max.]:
 - ii. Quantity and type of upgrades or replacements to water treatment infrastructure [100 characters max.]:
 - iii. Other water and/or wastewater water quality improvements – include quantity [500 characters max.]:
- b) Quantity and type of road related water quality improvements [500 characters max.]:
- c) For improvements that are not road related, number and type of watershed erosion and sediment control treatments completed [500 characters max.]:
- d) Number and type of other water quality improvements [150 characters max.]:

Watershed Rehabilitation & Habitat Improvement

- a) Quantity and type of instream habitat improvements [500 characters max.]:
- b) Quantity and type of vegetation improvements [500 characters max.]:
- c) Quantity and type of fish passage improvements [500 characters max.]:
- d) Other watershed or habitat improvements – include quantity [500 characters max.]:

Flood Management

- a) Quantity and type of new infrastructure built [500 characters max.]:
- b) Other flood management measure completed – include quantity [500 characters max.]:

Energy independence & Climate Change

- a) Quantity and type of new infrastructure built [500 characters max.]:
- b) Other energy independence and/or climate change measure completed – include quantity [500 characters max.]:

Other Work or Outcomes (not captured above)

- a) New infrastructure built and quantity [500 characters max.]:
- b) Briefly describe outreach proposed including the number of landowners targeted and number of events [500 characters max.]:
- c) Briefly describe any other type of specific work proposed including quantities [500 characters max.]: _____

23. Describe how the performance of the project will be monitored

Include what targets and methods will be used to monitor the project's ability to achieve the benefits and how performance will be assessed: [1000 characters max.]

24. Major Tasks and Deliverables for 2014 IRWM Drought Grant Solicitation

Major Tasks	Major Deliverables	Current Stage of Completion (%)	Total Task Budget	IRWM Task Budget	Timeframe (months)
Planning / Design					
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Environmental Compliance/ Mitigation / Permitting					
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Construction / Implementation					
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Construction / Implementation Monitoring					
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
Total 2014 IRWM Drought Grant Solicitation				_____	
Is Requested Budget scalable by 25%? <input type="checkbox"/> yes If so, indicate scaled total:					
Is Requested Budget scalable by 50%? <input type="checkbox"/> yes If so, indicate scaled total:					

25. Project Information Notes:

Project Benefits

- Describe how your project benefits salmonids and other endangered/threatened species:
_____ [500 character max.]
- Describe how your project addresses climate change adaptation and mitigation: energy efficiency, reduction of greenhouse gas emissions, reduction of carbon, or reduction in water demand: [500 character max.]

- For each of the Potential Benefits that your project claims complete the Amount of Benefit and Estimated Benefit Value in the following table to describe an estimate of the benefits expected to be a result of the proposed project. [See the NCIRWMP Project Application instructions and background information to help complete the table. Work tables are provided in the instructions with additional guidance, source materials and examples from North Coast projects.]

Potential Project Benefits Table

Potential Benefits	Physical Amt of Benefit	Suggested Physical Units	Estimated Economic Value	Suggested Economic Units If project-specific units are used, provide source or other documentation of value at the end of each subsection.
Water Supply Benefits				
Increased Instream Flow for Environmental Purposes	_____	Gallons per year; Gallons per minute; Acre-feet per year	_____	\$80-120 per acre-feet per year, depending on scarcity and availability of substitutes. A higher value may be appropriate if water is being made available for San Francisco Bay area (\$160-\$250) or Central Valley (\$80-\$280) users.
Increased Instream Flow for Agricultural Purposes	_____	Gallons per year; Gallons per minute; Acre-feet per year	_____	\$80-120 per acre-feet per year, depending on scarcity and availability of substitutes. A higher value may be appropriate if water is being made available for San Francisco Bay area (\$160-\$250) or Central Valley (\$80-\$280) users.
Increased Instream Flow for Municipal Purposes	_____	Gallons per year; Gallons per minute; Acre-feet per year	_____	\$80-120 per acre-feet per year, depending on scarcity and availability of substitutes. A higher value may be appropriate if water is being made available for San Francisco Bay area (\$160-\$250) or Central Valley (\$80-\$280) users.
Change in Timing and Volume of Instream Flow	_____	Cubic feet per second (cfs) over a particular period (document evidence of scarcity during this period)	_____	Project specific / Not monetized
Increased Water Supply Reliability	_____	Number of household customers; Reduction in frequency of water shortages (e.g., once in five years, once in ten years); Reduction in magnitude of shortage (e.g., 10% reduction, 20% reduction)	_____	\$19-\$27 per household per month Lower value is appropriate for improvements in reliability in situations where shortage is likely to occur infrequently and/or for short periods of time. Higher value is appropriate for

Potential Benefits	Physical Amt of Benefit	Suggested Physical Units	Estimated Economic Value	Suggested Economic Units If project-specific units are used, provide source or other documentation of value at the end of each subsection.
				improvements in reliability in situations where shortage occurs frequently and/or for longer periods of time.
Increased Groundwater Recharge	_____	Percent increase; Gallons per year; Acre-feet per year	_____	Project Specific/Not monetized
Avoided Water Supply Purchases	_____	Volume of water purchased per year (or at the frequency purchases would be avoided)	_____	Project specific: \$ per unit of raw water purchased per year
Avoided Water Supply Projects	_____	Description of the avoided project, including physical benefits, and timing of actions	_____	Project specific: Cost of avoided project(s), including capital, replacement, and operations & maintenance costs, as applicable.
Avoided Water Shortage Costs	_____	Gallons per year; Acre-feet per year; Percent change in frequency /severity of water shortages	_____	Project specific: Avoided costs associated with water shortages
Avoided Electric Costs	_____	Energy units (kWh) per year; Acre-feet of water pumped per year	_____	Project specific: \$ per kWh per year (PG&E current rates for different customers can be found at: http://www.pge.com/notes/rates/tariffs/rateinfo.s.html)
Avoided Costs Associated with Emergency Repairs	_____	Project Specific	_____	Project specific: Avoided costs associated with labor and capital to make the emergency repair.
Revenue from Water Sales to New Customers	_____	Gallons per year; Acre-feet per year	_____	Project specific: \$ amount of net increase in revenue
Project specific units and source of value (Water Supply): _____				
Water Quality				
Sediment Reduction	_____	Tons per year	_____	Project specific/ Up to \$11 per ton of sediment per year
Decreased Water Temperature	_____	Avoided project; Change in maximum daily temperature, by day	_____	Project specific/Not monetized
Increased Dissolved Oxygen (DO)	_____	Avoided project; Change in DO concentration	_____	Project specific/Not monetized
Bacteria/ Contaminant Reduction	_____	Avoided project; Change in bacteria/ contaminant concentration	_____	Project specific/Not monetized
Additional Water Quality Projects Avoided	_____	Avoided projects	_____	Project specific/Not monetized

Potential Benefits	Physical Amt of Benefit	Suggested Physical Units	Estimated Economic Value	Suggested Economic Units If project-specific units are used, provide source or other documentation of value at the end of each subsection.
Avoided Water Treatment Costs	_____	Gallons per year; Acre-feet per year	_____	Project specific: Reduction in water treatment costs per unit of water per year
Avoided Culvert Failures	_____	Number of culvert failures avoided	_____	Project specific: Cost of culvert failure Either estimate costs if specific culvert failed or use an average appropriate for type of culvert and downstream/surrounding conditions.
Flood Damage Reduction	_____	To determine flood damage reduction benefits, see specific instructions below.	_____	Project specific. May include avoided costs of damage to structures and infrastructure, avoided cost of loss or disruption of critical services, avoided cost of loss of life.
Project specific units and source of value (Water Quality): _____				
Other Benefits				
Fishery Improvement	_____	Number of fish per year; Percent population increase; Density (fish/m ²); Amount (e.g., miles) of new spawning habitat available; Other description of expected effects on fish populations, if none of the above are available.	_____	Project and species-specific values; Potential overlap with other benefits, such as water quality improvements and recreation benefits.
Increased Quantity or Quality of Recreation or Public Access	_____	Number of recreation days, by type of activity	_____	\$128 per camping day, \$54 per fishing day, \$28 per hiking day, \$33 per motorboating day, \$61 per mountain biking day, \$79 per picnicking day, \$25 per sightseeing day, \$33 per swimming day, \$89 per wildlife viewing day.
Improved Fish Passage	_____	Number of fish per year; Percent population increase; Density (fish/m ²) Amount (e.g., miles) of new spawning habitat available; Other description of expected effects on fish populations, if none of the above are available.	_____	Project and species-specific values; Potential overlap with other benefits, such as water quality improvements and recreation benefits.
Habitat Restoration	_____	Acres of habitat, by type	_____	\$120 per acre per year (riparian habitat) \$2,000–\$4,000 per acre per year (wetland habitat); Project-specific values may also be appropriate.
Invasive Plant Removal	_____	Acres of habitat improved	_____	\$120 per acre per year (riparian habitat) \$2,000–\$4,000 per acre per year (wetland habitat); Project-specific values may also be appropriate.

Potential Benefits	Physical Amt of Benefit	Suggested Physical Units	Estimated Economic Value	Suggested Economic Units If project-specific units are used, provide source or other documentation of value at the end of each subsection.
Flood Control	_____	Area and type of land protected; Change in flood probabilities	_____	Project specific. See also Flood Damage Reduction, above.
Reduction in Shellfish Closures	_____	Number of days per year of reduced closures; Change in quantity of commercial shellfish production; Change in shellfish-related recreation days	_____	Project specific
Decreased Operation and Maintenance Costs	_____	Project specific	_____	Project specific: Avoided costs associated with labor and capital for operations and maintenance.
Avoided Costs of Road Maintenance	_____	Miles of road	_____	Project specific: Average road maintenance costs per mile including labor and capital.
Enhanced Fire-Fighting Capabilities	_____	Area protected per year; Avoided costs associated with other sources of water; Avoided costs of delays associated with responding to fires	_____	Project specific
Reduced Risk of Wildfire	_____	Amount of fuel load reduced; predicted reduction in annual fire risk	_____	Project specific; Non Monetized
Project specific units and source of value (Other Benefits): _____				
Community and Social Benefits				
Education or Technology Benefits	_____	Number of people reached; Description of effects of technology (e.g., saved labor, better accuracy, etc.)	_____	Project specific; Not monetized
Avoided Public Water Resources Conflicts	_____	Describe and quantify the conflicts	_____	Project specific; Not monetized
Social Health and Safety	_____	Describe the effects in the project benefit notes	_____	Project specific; Not monetized
Project specific units and source of value (Community & Social Benefits): _____				
Climate Change Amelioration				
Carbon Emissions Reductions from Reduced Electricity Use	_____	Reduction in emissions of CO ₂ equivalent (CO ₂ E) per year, in tons. Reduced electricity use per year in kWh. To calculate emissions for the project area, go to http://oaspub.epa.gov/powpro/ept_pack.charts	_____	\$15 per ton of carbon dioxide equivalent (increases at a real rate of 2.5% per year)
Carbon Emissions Reductions from Other Reduced Energy Use	_____	Reduction in emissions of CO ₂ equivalent (CO ₂ E) per year, in tons. Reduced energy use per year (e.g., gallons of diesel fuel). To calculate emissions reductions from different	_____	\$15 per ton of carbon dioxide equivalent (increases at a real rate of 2.5% per year)

Potential Benefits	Physical Amt of Benefit	Suggested Physical Units	Estimated Economic Value	Suggested Economic Units If project-specific units are used, provide source or other documentation of value at the end of each subsection.
		energy sources, go to http://www.epa.gov/cleanenergy/energy-resources/calculator.html#results		
Carbon Sequestration	_____	Number of trees planted, by type; Volume of CO ₂ sequestered per year (in tons); May use the Tree Carbon Calculator to estimate carbon dioxide sequestration from tree planting projects: http://www.fs.fed.us/ccrc/tools/ctcc.shtml	_____	\$15 per ton of carbon dioxide sequestered (increases at a real rate of 2.5% per year); If estimates are not available but an estimate of number of trees planted is available, use the following value estimates: \$0.64 for per hardwood planted per year; \$0.49 per conifer planted per year; (average annual value of carbon sequestered by a tree with a moderate growth rate over 50 years, discounted at a rate of 3%);
Project specific units and source of value (Climate Change): _____				

1. Project Cost Analysis in regards to Benefits

- a) Have alternative methods been considered to achieve the same types and amounts of physical benefits as the proposed project been identified? If no, why? If yes, list the methods (including the proposed project) and estimated costs.

- b) If the proposed project is not the least cost alternative, why is it the preferred alternative? Provide an explanation of any accomplishments of the proposed project that are different from the alternative project or methods.

2. Project Benefits Notes:
