North Coast Resource Partnership
TPRC Proposition 1 IRWM 2019 Project Review Summary

1 - 12th District Agricultural Association, Drought Response and Water Efficiency Project

Location: Mendocino
Benefit: DAC = y; Severely DAC = partial
NCRP IRWM Budget Request: $1,737,940 **Non-State Match:** $41,479 **Total Budget:** $1,779,419
Project Abstract: The 12th DAA Drought Response and Water Efficiency Project addresses the identified need for replacement, adaptation and modernization of the aging and dilapidated fresh water delivery system at the Redwood Empire Fair.

TPRC Project Review:

- *Final Score (Rank): 60.3*
- *DAC - Yes*
- *Scalable - Yes*

TPRC Discussion:

- Joe Scriven recused himself from the discussion and project scoring.
- Evacuation center and FEMA-used center, which provides another benefit
- 60% of water use is going to irrigation. There is a charter schools on site, and there was not an understanding of how many children served. Question of why irrigation is a critical need.
- TPRC members expressed concerns that there were some gaps in the proposal.
- Not clear how many people the project would serve.
- The budget was not detailed enough.
- Seems there should be another budget source.
- Not clear how the elements of the project piece together

2 - Blue Lake Rancheria, Water Storage Project

Location: Tribal
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $764,170 **Non-State Match:** $0 **Total Budget:** $764,170 "
Project Abstract: Blue Lake Rancheria (BLR) will install 500,000 gallons of water storage capacity to complete its water distribution system, funded through a 2017 BOR WaterSMART grant and an ARRA-funded groundwater well. BLR is currently vulnerable to any disruption in existing water delivery from HBMWD through the City of Blue Lake. BLR's solar-electric microgrid is able to provide uninterrupted power in the event of a regional emergency; the new water grid will help complete BLR's resiliency goals.

TPRC Project Review:

- *Final Score (Rank): 69.9*
- *DAC – Severely DAC*
- *Scalable - Yes*

TPRC Discussion:

- John Friedenbach recused himself from the TPRC discussion and project scoring as HBMW supplies water to Blue Lake Rancheria

- Scalability of project was well described.
- Didn't quantify the benefits fully.
- TPRC members were impressed by the reasonable budget
- Proposal was well written and explained the project well
- Financial need was missing
- Amount requested for Construction Administration seems high
- Indirect cost detail would have made for a stronger budget
- Straightforward project, and it appears that there is a high likelihood that the project will get completed
- Unclear how many people the project will serve
- Urgency and level of need was unclear; applicant has a reliable water source through HBMWD.
- Commitment to provide backup to HBMWD would have demonstrated regional collaboration and created a stronger application
- Additional storage is a priority.
- The Tribe has abundant water. The project would promote Tribal autonomy more than addressing a water need.
- Tribal autonomy could serve the greater community in the event of a large disruption by providing responders for fire and emergency shelter
- Helping fund a phase of work to complete a project.
- TPRC members didn't feel there was an immediate need, as this is not a water scarcity issue, but a disaster preparedness and climate resiliency project.

Final Selection Comments:

- The lack of critical need is the main concern with this project. There is not an issue of water scarcity or documentation for vulnerability. They did not include partnership with the City of Blue Lake, which would have made a stronger case for benefits and goals.
- Recommending to fund 50% of the project for one tank.

3 - Briceland Community Services District, Water Supply Enhancement Project

Location: Humboldt
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $1,435,500 **Non-State Match:** $0 **Total Budget:** $1,435,500
Project Abstract: The BCSD is a rural CSD that serves the drinking and fire suppression water needs of a vulnerable SDAC comprised of a day care, school, community center, and 25 households. The proposed water supply enhancement project, including improvements to the water intake, treatment, and fire suppression systems, will enhance the resiliency and autonomy of Briceland by increasing water conservation, increasing fire-fighting capabilities, and reducing the District's annual O&M costs in a sustainable manner

TPRC Project Review:

- *Final Score (Rank): 73.1*
- *DAC*
- *Scalable -Yes*

TPRC Discussion:

- Small district that demonstrated the needs of their community.
- Pipes are from 1800's, water quality seemed to be a need.
- Unclear where they get water the rest of the year.

- The water saving from this project is a huge benefit.
- The requested amount is high given the small population it serves, but funding through rate payer option would be difficult in such a small disadvantaged community.
- Question regarding access and if there is landowner agreement.
- Fire suppression benefit is substantial.
- Unclear if there is a sufficient water supply from the ephemeral spring on private property and where the water to fill the tank is coming from when the spring supply ends.
- Fire protection and clean water for students is a bonus.

Final Selection Comments:

- Recommend funding with 25% reduction.

4 – California Trout, Scott River Valley Managed Aquifer Recharge

Location: Siskiyou
Benefit: DAC = y; Severely DAC = partial
NCRP IRWM Budget Request: $1,380,583 **Non-State Match:** $34,125 **Total Budget:** $1,414,708
Project Abstract: The Scott Valley Managed Aquifer Recharge Project will augment groundwater conditions to enhance flow and improve water quality at critical habitat on the mainstem Scott River. Utilizing the Scott Valley Irrigation District (SVID) canal system, approximately 20 to 30 cfs will be diverted and applied to identified agricultural fields, during the non-irrigation season, from Dec 1st through Feb 15th using existing flood irrigation turnouts and mobile pumping methods. Project benefits will be measured

TPRC Project Review:

- *Final Score (Rank): 71.5*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Rick Dean recused himself from the TPRC discussion and project scoring
- One letter of support.
- Project could be scaled by reducing acreage, but unclear about scaling research.
- Does not require CEQA
- A lot of costs proposed are for monitoring and not as much for implementation. Seems heavy on the research.
- The project is interesting but may not be as critical as those needing water security.
- Endangered Coho is a critical asset in the Scott River and region-wide. This project explores a way to increase flow to the river and providing groundwater recharge.
- The UC Davis collaboration is favorable, however the money going for more research seems to be a policy question.
- Private landowner certainty would have been stronger, not just verbal approval.
- Lack of detailed budget. Unclear how much is needed for field work vs. study. It is unfortunate that there is no additional matching funding for such a large budget.
- The project is well thought out and demonstrates a clear roadmap for implementing the project.
- The project's impact is difficult to assess.
- Valuable research but seems to be similar to a pilot project.
- Results may not be transferrable to other watersheds.

Final Selection Comments:

- Research is important, but there are questions about it being a research study as opposed to an implementation project especially in relation to the costs.
- Qualification based on decision support tool, passes as qualifying.
- A reduced budget of 25% percent will still provide useful information and increased ground water supplies and water quality.
- They are not building a project to help small communities have water, is this more technical and not implementation.
- Recommend passing for the time being and suggest that they reapply.

5 - Conservation Biology Institute, Fire Risk Reduction Decision Support for the Russian River Watershed

Location: Sonoma /Mendocino
Benefit: DAC = partial; Severely DAC = n
NCRP IRWM Budget Request: $250,452 **Non-State Match:** $191,000 **Total Budget:** $427,236
Project Abstract: This project will provide decision support for prioritizing locations and types of on-the-ground action to protect important water resources from the impacts of fire. This project focuses on the Russian River Watershed (Mendocino and Sonoma Counties) and the water supplies of Lake Sonoma, Lake Mendocino, and the Russian River, which provide water for over 600,000 people. Prioritization will be based on modeled risk of large and severe fire and impacts to hydrology and biodiversity.

TPRC Project Review:

- *Final Score (Rank): 63.9*
- *DAC – Partial DAC*
- *Not-Scalable*

TPRC Discussion:

- Dale Roberts recused himself from the scoring and was not in attendance at the meeting
- The proposed project is a transferable tool and there is a clear need given the recent fires.
- Solid project for the price, and possessing a significant match.
- There should have been more support garnered and listed from Tribes in the watershed. The project did indicate that it would partially benefit DACs.
- Some TPRC members felt that the Mendocino County portion of the Russian River Watershed was not reflected equally in the project and that the modeling seemed focused primarily on Lake Sonoma.
- Would have liked to know why the software was chosen. Some TPRC members questioned whether the project could be transferrable to other regions?
- Some TPRC members felt that the description of the Fire Smart program and community input could have been more detailed given there was a lot of community engagement and groundwork.
- Some TPRC embers felt that the proposal would benefit from clearer explanation of what they are trying to accomplish with the work.
- Describing the impact of fire on the urban area would have been helpful because it is not accurate to say that all fire is bad in all areas.

- The software and the product do not appear to be open source and the proposal includes a license fees of $5,000 per year for 3 years.
- There was discussion about whether the project will meet the 15-year life requirement. DWR states that decision support tools are eligible if they support development of projects that have a 15-year life.
- There is a lot of match and leveraged funds.
- The budget was detailed.

6 - Covelo Community Services District, Collection System and Wastewater Treatment Plant Improvements

Location: Mendocino
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $2,412,746 **Non-State Match:** $0 **Total Budget:** $2,412,746
Project Abstract: Reducing I&I into the collection system will ease the burden of extremely high flows through the WWTP during winter/rainy periods. When flows are high, not only is the treatment often insufficient, but the plant may be forced to surface water discharge toxic effluent into the nearby Grist Creek, as happened in 2017 (failed toxicity test). Part 2 of the project is to make improvements to the WWTP itself to improve the overall treatment and reduce the toxic ammonia in the plant's effluent.

TPRC Project Review:

- *Final Score (Rank): 69.4*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Straightforward project.
- Treatment plant component seems a greater priority than replacing the pipes.
- Project could be scalable by choosing which pipes to replace.
- Peak flows were not mentioned.
- Past work was funded by NCRP; design flaws happened in the past.
- Separate scalable project budget would be helpful to better understand how project could be funded in phases.
- In order to scale the project, could first improve the lines and then improve the wastewater treatment plant. Could revisit partial funding.
- Proposal clearly described needs and the specific problem areas.
- TPRC members liked the energy supply aspect.

Final Selection Comments:

- The construction management costs seemed high, as well as the contingency budget item.
- It is hard to phase this project without the detailed budget.
- It is recognized that this area needs assistance.
- Scaling 50% would fund the collection system improvement. But without more documentation, the costs still seem higher than normal. Insufficient documentation that there is a need for the full funding.
- Could do half of the collection system to take care of the worst issues.
- Recommend funding 75% to focus on phase 1.

7 - County Service Area No. 1, Onsite Emergency Power Supply for Sanitary Sewer Lift Stations

Location: Del Norte
Benefit: DAC = y; Severely DAC = partial
NCRP IRWM Budget Request: $1,076,855 **Non-State Match:** $0 **Total Budget:** $1,076,855
Project Abstract: Provide onsite emergency power at 11 lift station locations throughout the CSA protecting public health and safety, and avoiding impacts to water quality and sensitive habitats by substantially decreasing the potential for sanitary sewer overflows (SSOs). A map of all 15 CSA lift stations has been included with the application. The CSA serves the urban unincorporated Crescent City area or a total of about 3,500 equivalent single-family connections.

TPRC Project Review:

- *Final Score (Rank): 67.5*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Jim Barnts recused himself from the TPRC discussion and scoring because he is the County Engineer.
- Project could be easily phased.
- Backup power is a critical need, but that is not necessarily a high NCRP goal. Then again, overflows can contaminate drinking water, and they did lose power 5 times in the last year.
- Could scale to replace generators that are at the end of their life. Great for scalability – could list priorities.
- Resiliency and environmental impact meet the NCRP goals.
- Would like to know their capacity and when it becomes an environmental impact.
- The budget was not as detailed by line item.
- TPRC members appreciated the inclusion of the sewer management plan.

Final Selection Comments:

- Recommend funding at 75% and prioritizing their worst spots and repairing generators.

8 - City of Dorris, Water System Infrastructure Project

Location: Siskiyou
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $2,080,000 **Non-State Match:** $0 **Total Budget:** $1,667,000
Project Abstract: The project will help the City of Dorris provide a safe reliable source of drinking water through replacement of a dilapidated water treatment facility and to promote water conservation and sustainability of the City's water supply through installation of water meters. In addition, the use of solar panels to power its water pumps will help the City to be more self-sustaining, reduce its carbon impact, and significantly reduce its O&M costs.

TPRC Project Review:

- *Final Score (Rank): 70.7*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Rick Dean recused himself.
- Agreement amongst TPRC members that this was a useful project. Members liked the water treatment facility element, which could impact water quality.

- Project could be scaled by prioritizing areas with greater need for meters.
- There was inadequate information provided concerning investigation of the well annular seal as required by the SWRQB.
- It is inappropriate to build the new well building, where the foundation pad will serve as the well surface seal, without the information how to remediate annular seal issues identified by the State Water Board.
- The concern about arsenic is legitimate. The well project seems to be a greater priority, but is lacking full information.
- The requested budget is very high, and lacking some detail. The solar panel aspect also seems very high and perhaps not as critical of a need.
- The meters are intended for non-residential customers. TPRC members approve of water meters for conservation measures.
- The TPRC discussed whether non-residential customers should pay for the meters. The price of water meters varies greatly by size, and it wasn't clear which sizes they are proposing. Are they affordable for customers?

Final Selection Comments:

- There is insufficient detail on the annular seal in the well and no documentation about whether they've addressed that critical need. The application does not provide information regarding whether the State Water Board. issue has been resolved or how they will resolve it.
- Commercial water meters are not something the TPRC feels is a critical need; standard commercial owners pay for meters.
- There is concern that the solar aspect isn't a critical need.
- The application is incomplete.
- Reapply for Round 2 with more information on addressing the State Water Board letter, drop non-residential meters, and analyze solar alternatives. Could demonstrate power outages, third party power source to lower costs for the system for alternative section, more alternatives on financial options. Revise budget to see the costs for chlorination, there is no information in the detailed budget to move forward to scale this project. Put a higher priority on the issues that are a public risk.
- TPRC would like to fund the project, with more cost details, and more detail on how they address the State's concern. Aren't able to fund scaled project without the budgets.
- Recommending they come back with the recommendations considered for Round 2 of Prop 1 funding.

9 - Eel River Watershed Improvement Group, Cuneo Creek Riparian Restoration Project

Location: Humboldt
Benefit: DAC = y; Severely DAC = partial
NCRP IRWM Budget Request: $135,673 **Non-State Match:** $0 **Total Budget:** $135,673
Project Abstract: This project will be the planting and subsequent watering of 170 redwood saplings, 330 Douglas fir saplings, and 20 white oak saplings in the riparian zone of Cuneo Creek. These trees will enhance the riparian corridor and increase shading, thereby reducing water temperatures and sequestering carbon from the atmosphere.

TPRC Project Review:

- *Final Score (Rank): 63.8*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Scored lower because the project is subsidizing State Parks and staff.
- Not showing any match from State Parks or other sources.

10 – Eel River Watershed Improvement Group, Kenny Creek Instream Habitat Enhancement Project

Location: Mendocino
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $176,077 **Non-State Match:** $46,830 **Total Budget:** $224,687
Project Abstract: This project will increase salmonid habitat in Kenny Creek through the placement, instream, of 28 LWD structures along a 1.1 mile long stream reach (worksite). The LWD structures will provide shelter, increase habitat complexity, deepen pools, provide velocity refugia, and enhance spawning gravels. Additionally, 400 coniferous trees will be planted along the riparian corridor. These trees will help decrease stream temperatures and will store carbon.

TPRC Project Review:

- *Final Score (Rank): 73.0*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Scored pretty high
- The project provided sufficient implementation and research.
- The detailed design drawings indicate a high level of knowledge about the project need and implementation.
- Looks like a good investment. Budget appears lower than other projects, but ERWIG and CCC's have a great track record, and materials are being donated.
- They have leveraged funding which is positive.
- Capturing sediment is a great benefit.

Final Selection Comments:

- Recommend full funding

11 – City of Eureka, Storm Water Management and Sea Level Rise Resiliency Project

Location: Humboldt
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $1,000,000 **Non-State Match:** $3,000,000 **Total Budget:** $4,000,000
Project Abstract: The objectives of the project are to reduce the impacts of extreme weather flooding and associated hazards, increase water quality of sensitive habitat, and reduce impacts from climate change including sea level rise and changes in precipitation patterns. The project consists of storm drain improvements and LID features, which will enhance the quality and reduce quantity of stormwater that discharges to the bay, and reduce extreme coastal event impacts to the City and receiving bay waters.

TPRC Project Review:

- *Final Score (Rank): 67.4*
- *DAC*
- *Scalable - No*

TPRC Discussion:

- If FEMA grant does not come through, where does that leave the project?
- The budget detail on LID feature is not clear because of the lump sum.

- TPRC members like the project and match component but think it could be clearer in describing project details.
- Not scalable because they need a certain amount to receive the match, but scalable as to where they get the funds.
- Any benefit to Humboldt Bay is a good investment and worthwhile to consider.

Final Selection Comments:

- The project does not respond to a critical need, compared to small disadvantaged community water supply or other projects proposed in the county/region.

12 - City of Ferndale, California Street Sewer Replacement

Location: Humboldt
Benefit: DAC = y; Severely DAC = partial
NCRP IRWM Budget Request: $326,750 **Non-State Match:** $0 **Total Budget:** $326,750
Project Abstract: The project will replace the aging vitrified clay pipes on California Street to reduce the amount of groundwater entering the sewer system thereby reducing the possibility of a pond overflow, the possibility of sanitary sewer overflows in the collection system, and the likelihood of the City violating their NPDES permit limit on discharges to the Salt River.

TPRC Project Review:

- *Final Score (Rank): 71.0*
- *DAC*
- *Scalable – Yes*

TPRC Discussion:

- Only reducing total amount sent to pond by 6%.
- NCRP has invested in the Salt River Restoration project in previous funding rounds.
- Seems like a small budget for the need.
- Overall budget is missing details.
- Reduction of 5% of I&I, is this amount going to fix the issue.
- Is scalable.

Final Selection Comments:

- Reasonable budget, claimed scalable, but didn't provide the details for scalability.
- Good benefit for cost.
- Recommend full funding.

13 - Fieldbrook Glendale Community Services District, Water Tank Seismic Retrofit Project

Location: Humboldt
Benefit: DAC = n; Severely DAC = n
NCRP IRWM Budget Request: $314,744 **Non-State Match:** $944,226 **Total Budget:** $1,258,970
Project Abstract: The proposed seismic retrofit is to install a new 400,000 gallon bolted steel water tank. The problem this project is attempting to solve is potential loss of Potable and Wastewater services to the Fieldbrook Glendale Community Services District due to earthquake hazards, as well as potential loss of water for emergency fire fighting for the surrounding areas.

TPRC Project Review:

- *Final Score (Rank): 73.4*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- John Friedenbach recused himself because HBMWD supplies water to Fieldbrook.
- The funding match is a benefit, and ranks it higher.
- Currently they are wasting water to overflow to keep the redwood tank wet.
- It's a good project and a small community.
- Application was well thought out.
- Likes the large storage capacity, especially for emergency reasons.

Final Selection Comments:

- A lot of match, detailed budget. Only asking 25% of budget.
- Recommend full funding.

14 - City of Fort Bragg, Pudding Creek Water Main Relocation

Location: Mendocino
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $1,669,000 **Non-State Match:** $40,000 **Total Budget:** $1,669,000
Project Abstract: Project would relocate an existing 10-inch water main from a privately-owned dam at risk of failure due to erosion, flooding and seismic activity to the Pudding Creek Bridge, where Caltrans is placing a sleeve/hanger for the water main as part of a bridge widening project. The water main is the only access to municipal water for several businesses and a +/- 70-unit senior mobile home park. The existing main would be removed allowing for the eventual removal of Pudding Creek Dam (by others).

TPRC Project Review:

- *Final Score (Rank): 63.9*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- High cost for the small amount of population served.
- Appears to be a right of way issue, not a water issue.
- It wasn't clear if there were other ways to service the area.
- The budget looks very high for the work, and the budget details are insufficient.
- No designs are included.

15 - City of Fort Bragg, Storm Water Trash Capture Devices

Location: Mendocino
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $529,000 **Non-State Match:** $176,000 **Total Budget:** $705,000
Project Abstract: The City is planning to install six (6) high-flow capacity (HFC) trash capture devices inside of existing City storm drain infrastructure in response to Water Code Section 13383 Order, issued by the State Water Board in 2017. The HFC devices will capture and prevent trash from traveling via the storm drains to receiving water bodies. Trash in local watersheds poses a serious threat to surface water quality and aquatic species f transported to local creeks, rivers, or the Pacific Ocean.

TPRC Project Review:

- *Final Score (Rank): 64.3*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- The administration and mobilization costs seemed high for the budget.
- Worthwhile project, and Ft. Bragg is subject to Storm water plans.
- Applicant does a good job identifying project locations.
- The TPRC discussed how they are meeting the State standard and the requirement is costly.
- The cost share is a positive aspect.
- The project does not respond to a critical need, compared to other small disadvantaged community water supply or other projects proposed in the county/region.

16 - Gold Ridge Resource Conservation District, Rainwater Catchment Rebate and Streamflow Enhancement Pilot Project

Location: Sonoma
Benefit: DAC = partial; Severely DAC = partial
NCRP IRWM Budget Request: $584,245 **Non-State Match:** $584,245 **Total Budget:** $1,168,491
Project Abstract: This multi-partner pilot project seeks to promote water conservation, provide alternatives to extractive water sources, enhance streamflow for wildlife, and foster water use awareness throughout Sonoma County's North Coast region by piloting a standardized and cost-effective rebate program for small-scale rainwater catchment systems, while building capacity among both local landscapers and homeowners to design and install them.

TPRC Project Review:

- *Final Score (Rank): 69.8*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Dale Roberts recused himself from the scoring and was not in attendance at the meeting
- Mentioned benefiting Marin County, which is outside NCRP jurisdiction.
- Sliding scale rebates would be helpful for DAC members, but there was no description of DAC's benefiting over those who can afford the work.
- Not clear on how the project focuses on DAC members.
- The documentation submitted with the application shows clear support for the project.
- There is a lot of Match funding, which is good and shows great support.
- TPRC members like the Partnership and investing in that area
- Rainwater tanks have a long lifespan, and are a good investment.
- The education component is invaluable.
- They have a great track record.
- The education and programmatic approach is a great benefit, and there is a multiplier effect.
- Would have liked to see them quantify the expected outcomes in the benefits table.
- Very Scalable.

Final Selection Comments:

- Concerned with DAC members not completely having access to the program.
- Recommend funding at 75%, minus the grant overage.

17 – Humboldt Bay Municipal Water District, Ranney Collector 2 Rehabilitation Project

Location: Humboldt
Benefit: DAC = partial; Severely DAC = partial
NCRP IRWM Budget Request: $600,000 **Non-State Match:** $3,105,750 **Total Budget:** $3,705,750
Project Abstract: Ranney Collector rehabilitation consists of replacing laterals that project out into the aquifer. Once the new flow rates are determined, then new energy efficient pumps and motors are sized to efficiently and cost effectively pump the water. Once the pump and motors are sized, then new electrical controls, circuitry and station 12kV transformer are installed to efficiently operate the new system. Original pumps, motors, electrical circuitry and transformer were installed in 1960.

TPRC Project Review:

- *Final Score (Rank): 75.8*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- John Friedenbach recused himself from the scoring and project discussions
- Funded other Ranney Wells in Round 2
- There was a clear need
- Substantial match.
- Cat Ex amount seems high.
- Cost for the overall project is great.
- TPRC members like the project, and think it is very important.

Final Selection Comments:

- Recommend full funding.

18 - Lewiston Community Services District, Water Distribution System Replacement Project

Location: Trinity
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $1,192,525 **Non-State Match:** $1,188,200 **Total Budget:** $2,380,725
Project Abstract: For the protection of human health, the environment, water quality, and water conservation, the Proposed Project includes installation of 10,275 feet of water main and appurtenances, replacement of 151 service connections, relocation of 16 service connections, reconnection of 9 fire hydrants, and installation of a new fire hydrant. Construction is anticipated to be begin in conjunction with construction of the Wastewater Collection, Treatment, and Disposal Project in an effort to reduce costs.

TPRC Project Review:

- *Final Score (Rank): 78.5*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Critical need is apparent - the project would resolve many risks
- Budget is lacking detail.
- There is a significant funding match.
- Costs for materials seems reasonable.
- This project would have a major positive impact.
- They are ready for on the ground work.

Final Selection Comments:

- Ranked 2
- Construction admin and engineering costs could be reduced for cost efficiency.
- Recommend funding 90%.

19 – Mattole Restoration Council, Lower Mattole River and Estuary Enhancement Project Phase II

Location: Humboldt
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $656,165 **Non-State Match:** $263,800 **Total Budget:** $919,965
Project Abstract: Summer and winter rearing habitat for juvenile salmon and steelhead will be improved within the lower two miles of the Mattole River by creating 1200 ft of slough/alcove, installing 12,000 ft. of willow baffles , and planting 8000 riparian trees and 4000 wetland plants. The project will have multiple long-term benefits for riparian habitat and water quality, as established riparian vegetation will slow floodplain turnover, store sediment and rack wood, and increase channel heterogeneity.

TPRC Project Review:

- *Final Score (Rank): 74.1*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Like the fact that this is a phase two.
- Unclear how the project supports Tribes.
- They take real ownership of the survival of the project because it's a very community based group.
- Liked the supporting documentation and Match.
- Good track record and partnerships.

Final Selection Comments:

- Recommend fully funding. Good track record, a lot of match.

20 - Mendocino Woodlands Camp Association, Mendocino Woodlands State Park Sediment Reduction Project

Location: Mendocino
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $1,032,339 **Non-State Match:** $263,874 **Total Budget:** $1,296,213
Project Abstract: This project will reduce sediment discharges from Roads 700 and 720 into Railroad Gulch, a Class I stream (habitat to Coho Salmon and Steelhead) and a tributary to Big River in the Lower Big River Watershed, by improving drainage on Road 720; directing drainage away from streams; and, transferring vehicle travel to Road 720

(higher up on the hillslope), allowing for the decommissioning of Road 700 (the only year-round, commercial vehicle access route to Mendocino Woodlands State Park).

TPRC Project Review:

- *Final Score (Rank): 60.4*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Liked the description of the scaled budget.
- Liked the inclusion of the road evaluation.
- Supporting State Agency staff and a CalFire road.
- Traditional sediment reduction for a used road.
- It is a Coho salmon stream.
- Budget cost seems high for the project and resulting benefits.
- Scalable and the road/culvert/instream work would have direct and positive impact to fish and are in alignment with the NCRP goals.
- The project does not respond to a critical need, compared to other small disadvantaged community water supply or other projects proposed in the county/region.

21 - County of Mendocino, Mendocino County Coastal MS4 Area Trash Capture Devices

Location: Mendocino
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $581,354 **Non-State Match:** $38,001 **Total Budget:** $619,355
Project Abstract: The project will result in diversion of trash from watercourses via installation of full capture devices within County storm drain infrastructure. Major components and project goals include: device selection, development of installation workplans and schematics, and device installation. The intended outcome of the project is diversion of 100% of trash from storm drains receiving devices, limiting the potential for ecosystem degradation, and improving the recreational value of receiving waters.

TPRC Project Review:

- *Final Score (Rank): 56.2*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Trash capture devices are important.
- There was no local support solicited.
- The detailed budget has lump sums that are not specific.
- The project does not respond to a critical need, compared to other small disadvantaged community water supply or other projects proposed in the county/region.

22 - Mendocino County Resource Conservation District, Forsythe Creek Floodplain and Riparian Restoration Project

Location: Mendocino
Benefit: DAC = partial; Severely DAC = n
NCRP IRWM Budget Request: $2,631,344 **Non-State Match:** $149,266 **Total Budget:** $2,780,610
Project Abstract: In the 1980s, ~500,000 cubic yards of sediment & concrete rubble were placed along Forsythe Creek's

north bank, which separated the channel from the floodplain and forced high flows into the south bank, eroding away mature riparian tree, incising the channel & lowering the water table. This project will restore channel access to the floodplain, rebuild the historic secondary channel, enhance native riparian vegetation, reduce velocities, aggrade the channel, & enhance salmonid spawning habitats.

TPRC Project Review:

- *Final Score (Rank): 64.5*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Joe Scriven and Emily Luscombe recused themselves from the discussion and scoring. Emily is not financially tied but worked on the watershed plan in the past.
- Cost seems high.
- The project is great and needed to reconnect the flood plain.
- The budget is very detailed.
- Design seems far along.
- The justification for DAC is lacking for the match waiver.
- How do you quantify the impact of the groundwater storage?
- Improving a fishery habitat in an important area of the watershed.
- This large of a project usually has more funding source.
- It is a very needed project and we need more of them.
- Would be a good candidate in a good position for next round with more leveraged funding.
- The total cost for the project benefit was high.

23 - Newell County Water District, Water System Improvements Project

Location: Modoc
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $1,846,426 **Non-State Match:** $0 **Total Budget:** $1,846,426
Project Abstract: The water system is composed of two 100,000-gallon welded steel water storage tanks, 3 existing wells, and a distribution system with 310 active service connections. The most pressing issues for the water system are malfunctioning SCADA controls, groundwater supply, and storage. This project will include new SCADA controls, new well and pump house to replace the failing Well 2, and a structural evaluation of the older steel tank that has failing paint coatings and cracks in the steel floor.

TPRC Project Review:

- *Final Score (Rank): 67.3*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- It was unclear if it was only providing more supply.
- The proposal did not provide a justification as to why the replacement well would experience less drawdown than existing well.
- More feasibility could be helpful.
- Curious if the distribution lines have been addressed.

- There was inadequate description of the rationale for the location, drilling and aquifer and groundwater sampling methodology and design of the New Well.
- Would like to help fund the project, but it doesn't seem ready. The critical need is clear.
- The legal access is in question.
- The budget detail is not there.
- They have received technical assistance, so a recommendation for TPRC may be helpful for attaining 2nd round of Technical assistance to be ready for Round 2.

Final Selection Comments:

- Construction administration budget seemed inflated.
- Narrative doesn't match up with budget. SCADA seems like the most critical need based on the application.
- Recommends funding the project 25% to include SCADA and tank assessment.

24 - Pacific Reefs Water District, Water Tank Replacement Project

Location: Mendocino
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $386,274 **Non-State Match:** $0 **Total Budget:** $386,274
Project Abstract: PRWD's water system had two water storage tanks with 60,000 gallons of storage capacity. In 2013, their primary 40,000 gallon tank failed (it collapsed). Their 20,000 gallon redwood tank is near the end of its useful life - it periodically leaks and the condition of the floor is of concern. After the primary tank failed, PRWD increased its property assessment to fund purchase of two 5,000 gallon plastic tanks as a temporary measure to bridge until a new tank is constructed.

TPRC Project Review:

- *Final Score (Rank): 70.3*
- *DAC*
- *Scalable - No*

TPRC Discussion:

- The need has been clearly defined.
- The budget is clearly broken down.

Final Selection Comments:

- Recommend full funding.

25 - Round Valley County Water District, Upper Grist Creek Watershed Restoration Plan

Location: Mendocino
Benefit: DAC = y; Severely DAC = partial
NCRP IRWM Budget Request: $108,585 **Non-State Match:** $13,000 **Total Budget:** $113,585
Project Abstract: The Project will engineer, permit and install 200' of CMI Industries AlumiGuard channel retaining wall to restore a critical section of Upper Grist Creek, to prevent Highway flooding, restore pooling habitat, and to allow flood plain recharge of the Covelo-Round Valley Aquifer.

TPRC Project Review:

- *Final Score (Rank): 53.4*
- *DAC*

- *Scalable*

TPRC Discussion:

- Some TPRC members thought that the proposal was unclear what they intend to do; more studies seem needed.
- There is a flooding issue there, but a hydraulic study and an engineering study should be required. Knowing why there is there a sediment problem would be helpful.

26 - Sanctuary Forest Inc., Drought and Emergency Water Project

Location: Humboldt
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $558,501 **Non-State Match:** $95,210 **Total Budget:** $653,711
Project Abstract: The project will address critical drought and the need for emergency water supplies and safe drinking water for the local elementary school along with associated water conservation, coordinated water management, and fish and wildlife benefits. Expected outcomes include 1) installation of 360,000 gallons of emergency water storage 2) installation of water filtration at the Whitethorn School; 3) coordinated water management resulting in improved streamflow and salmonid habitat.

TPRC Project Review:

- *Final Score (Rank): 80.7*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- School water supply and fire protection are critical needs.
- Have a lot of match and committed funding which is positive.

Final Selection Comments:

- Recommend full funding.

27 - Scotia Community Service District, Emergency Power Generator Project

Location: Humboldt
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $267,500 **Non-State Match:** $7,500 **Total Budget:** $240,000
Project Abstract: The SCSD has experienced repeated power failures over the past several years. The raw water supply, from the Eel River Pump Station, to the SCSD Water Treatment Plant does not have an emergency power generator. The project will provide emergency power to the two (2) river pumps and a continuous supply of water to the water treatment plant for domestic and commercial use as well as fire suppression for the entire community.

TPRC Project Review:

- *Final Score (Rank): 60.4*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Would have liked more information on how they are functioning now and more explanation of the need.
- The costs estimates and drawings are very clear.

28 - Scott River Watershed Council, Scott River Headwaters Forest Health, Fire Safety, and Water Quality Improvement Project

Location: Siskiyou
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $843,160 **Non-State Match:** $424,957 **Total Budget:** $1,158,864
Project Abstract: The project will target specific, high priority actions that will provide fire safety for people and water delivery infrastructure, and improve water quality for the communities of Etna, Quartz Valley Indian Reservation and Quartz Valley, all economically disadvantaged communities, by reducing road inputs, augmenting large wood in streams and reducing fuel loads. Co-benefits of employment, climate resiliency and salmonid fisheries improvement will accrue.

TPRC Project Review:

- *Final Score (Rank): 72.7*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Sandra Perez and Rick Dean recused themselves from the scoring and project discussions.
- TPRC members were impressed. Multiple benefits are clear and well integrated.
- Significant funding match with a reasonable budget.
- Liked that it is a systematic approach and looking at all aspects to make improvements.
- Liked the approach of thinning and water improvement.
- Liked that they already had a risk assessment completed.
- Budget detail has some lump sums; more detail would be appreciated.
- Great project that has many benefits.

Final Selection Comments:

- Recommend 25% reduction in funding

29 - Smith River Community Services District, Water System Emergency Generator Project

Location: Del Norte
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $322,445 **Non-State Match:** $870,000 **Total Budget:** $1,192,445
Project Abstract: The Smith River Community Services District (SRCSD or District) provides water to approximately 1,500 customers. The District's water source is from four 40-foot wells that are set back approximately 100 feet from Rowdy Creek. The well pumps move water to a series of five pump stations and eventually eight water storage tanks within the District. The project proposes to add six permanently mounted generators to mitigate the loss of power during severe storms, earthquakes, and other hazards.

TPRC Project Review:

- *Final Score (Rank): 69.8*
- *DAC*
- *Scalable - No*

TPRC Discussion:

- Requesting less than half of their match; the overall cost looks good.
- The Tribal system is not connected to the water system.
- Generators for water use in case of emergency is important.
- The need to be prepared for rolling blackouts due to fire was mentioned, which is important.

Final Selection Comments:

- Recommend full funding.

30 - Treasure Creek Woods Mutual Water Company, Water Storage and Distribution System Improvement Project

Location: Trinity
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $3,080,000 **Non-State Match:** $0 **Total Budget:** $3,080,000
Project Abstract: For the protection of human health, the environment, water quality, water conservation, and fire suppression, the proposed project includes installation of a 150,000-gallon welded steel storage tank, 2,500 ft of pipeline, and booster pump station (BPS) if needed, replacement of 4,200 ft of 6-inch water main, isolation valves, and appurtenances, replacement of 36 service connections, and installation of five new fire hydrants.

TPRC Project Review:

- *Final Score (Rank): 69.7*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- The project can be scalable.
- The budget cost is high, but did provide phased alternatives, which is good to see.
- It is not clear if this is really a cost effective solution.

Final Selection Comments:

- The cost benefit ratio does not seem appropriate, for just 36 residents. Would like to see more partners, more alternative funding, perhaps State funding.
- This project is very costly for the amount of work. TPRC sees the need, but would like to see them analyze alternatives. If set on this approach, there needs to be some way to reduce the cost for 36 connections. Prioritize or phase the project more clearly, and show details of what portion of the projects could be scaled.
- Recommend not to fund at this time. Take recommendations into consideration and come back to Round 2.

31 - City of Trinidad, Trinidad-Westhaven Community Water Reliability, Security and Enhancement Project

Location: Humboldt
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $1,494,209 **Non-State Match:** $0 **Total Budget:** $1,494,209
Project Abstract: Old, leaky water mains will be replaced and fire hydrants will be installed to reduce water loss, to improve firefighting capacity. A culvert below a critical road and water main will be replaced. The multi-benefit project will improve community fire protection, support the economic base, reduce water service interruptions and improve water supply reliability. The project will also protect critical water supplies, and water quality, habitats, species and property downstream of failing culverts.

TPRC Project Review:

- *Final Score (Rank): 67.2*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Budget seems high; scaled version would have been helpful.
- TPRC members would like to see scalability outlined based on priority
- Would like to see more grant application, or match to indicate funding support.
- Large amount of water loss.
- Would like to see indication of total production vs. water loss.
- The fact that the two communities are working together to increase water security and fire resiliency is a positive aspect of the proposal.

32 - Weaverville Sanitary District, Sewer Improvements Project

Location: Trinity
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $1,382,000 **Non-State Match:** $0 **Total Budget:** $1,382,000
Project Abstract: The District has identified 5 segments of the existing sewer collection system that are the most problematic and require significant effort to maintain. These areas of concern increase the difficulty of treatment due to infiltration and inflow (I&I) and may decrease the groundwater quality by introducing raw sewage to the surrounding groundwater. This project will rank the problematic areas and develop construction phases to implement replacement based upon ranking and funding availability.

TPRC Project Review:

- *Final Score (Rank): 68.3*
- *DAC – Severely DAC*
- *Scalable - Yes*

TPRC Discussion:

- Appreciated the good description of the 5 zones that are ranked.
- Project benefits were helpful.
- Project description mentioned frequent maintenance, but not seeing ample documentation that there had been issues.
- Project cost seems high, particularly CEQA and construction management costs.
- TPRC members would like to see some leveraged match funding, despite being a DAC.

Final Selection Comments:

- Recommend funding at 50%

33 – City of Willits, Improving Willits Water Supply Reliability and Drought Resiliency with Groundwater and Conjunctive Use

Location: Mendocino
Benefit: DAC = partial; Severely DAC = partial
NCRP IRWM Budget Request: $1,102,312 **Non-State Match:** $0 **Total Budget:** $1,102,312
Project Abstract: Today, the Willits water system lacks the groundwater capacity to provide for the needs of the communities if surface water again becomes untenable. The proposed project seeks to expand both groundwater capacity, increasing system resiliency, and conjunctive use, increasing flexibility. This flexibility would increase options for managing water quality, aquifers, watersheds, and critical habitats. Secure water also represents an economic benefit for a severely disadvantaged community.

TPRC Project Review:

- *Final Score (Rank): 69.5*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- The description and costs didn't seem to match up.
- Phases seem to indicate the project could be scalable.
- Looking to increase capacity by 73% to meet 2025 buildout.
- Didn't see conservation efforts and public outreach, which would have been helpful to have documented.
- Would have liked more information on Davis Creek portion related to the benefits.
- Did like the work put in to the West Yost Report.
- Didn't get a good idea if the arsenic is a current threat.
- No shortage demand currently, but did run out of water during the drought.
- Critical need is clear.
- Would have liked to see a comprehensive approach to management. A conservation plan would have been helpful to see as an attachment.

Final Selection Comments:

- The budget would be easier to understand if submitted in a phased approached.
- Concerned that the pipe size is inappropriate and increased well production would overdraft the aquifer. A storage tank would protect the aquifer, and improve the lifespan of the well.
- Recommend rethinking the project, and coming back with some documentation that the proposed system will not overdraft the aquifer. Recommend a clearer description of what they are going to do, rather than what they currently have. Include storage as an alternative solution, and look into arsenic test to see if it's a usable well.
- Recommend funding phase 1, for piping and include testing arsenic in the well with 50% of requested funding. Then take considerations above, and bring phase 2 back for Round 2.

34 - Watershed Research and Training Center, South Fork Trinity River - Spring Run Chinook Salmon Restoration Project - Phase II

Location: Trinity
Benefit: DAC = y; Severely DAC = n
NCRP IRWM Budget Request: $1,109,993 **Non-State Match:** $82,934 **Total Budget:** $1,192,927
Project Abstract: The project intends to increase the habitat quality and ecological conditions for spring-run Chinook Salmon through the placement of whole trees into the channel of the upper South Fork Trinity River.

TPRC Project Review:

- *Final Score (Rank): 71.8*
- *DAC – Severely DAC*
- *Scalable - Yes*

TPRC Discussion:

- Great project for fish.
- Curious why they put "no" for Severe DAC?
- Mentioned no benefit to Tribes, however the Tribe is getting a benefit by working on the project and the benefit of the anticipated increase to Spring run Chinook.
- Liked the detailed costs estimate.

- It is scalable.
- Would like to see more monitoring to see the data on how the technique worked.
- Did mention they would improve based on outcome from previous work.
- Would like to know if there was a timeline from existing permits.
- Would like to have known where they were in the planning portion.
- Planning budget seems economical.

Final Selection Comments:

- Recommend funding but scale down by 25%

35 - Yurok Tribe, Upgrading Critical Infrastructure to Support Resource Recovery in the Blue Creek Sanctuary

Location: Tribal
Benefit: DAC = y; Severely DAC = y
NCRP IRWM Budget Request: $937,268 **Non-State Match:** $1,538 **Total Budget:** $938,806
Project Abstract: The Yurok Tribe is proposing to conduct a number of high priority road and associated stream crossing improvements within the Blue Creek Sanctuary to protect and enhance water quality, increase watershed resiliency to climate change impacts, promote increased community safety (i.e. improve a primary flood & fire evacuation route, improve our ability to manage wildland fires), and help ensure effective Tribal management of vitally important water, wildlife, and forest resources in the Sanctuary.

TPRC Project Review:

- *Final Score (Rank): 73.9*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- Weitchpec is mentioned gaining a benefit - not clear on what aspect.
- Background information on the area would have been helpful.
- Didn't see volumes and detail of sediment reduction on instream work.
- Would like to see more information on what the drainage improvement work was, including a list of improvements
- Like that they have their own rock quarry.
- Like that the culvert locations were specified.
- It helps that it was tasked out into 3 separate tasks.
- Cost to benefit ratio is a concern.
- The Construction contracting costs seem incorrect ($379,194 for construction contracting). But will assume the budget detail is correct.
- Did not show road inventory roads assessment report, but did refer to Road Handbook, which is positive.

Final Selection Comments:

- Recommend full funding.

36 - City of Weed, Automated Meter Reading Project

Location: Siskiyou

Benefit: DAC = y; Severely DAC = y

NCRP IRWM Budget Request: $1,925,000 **Non-State Match:** $20,000 **Total Budget:** $1,945,000

Project Abstract: The proposed project includes the installation of automated meter reading (AMR) water meters for all service connections in the City, along with AMR devices, software, and training to City staff. AMR meters will allow the City to rapidly gather more accurate water usage data, including leak detection indicators for customers.

TPRC Project Review:

- *Final Score (Rank): 59.1*
- *DAC*
- *Scalable - Yes*

TPRC Discussion:

- The project doesn't benefit system reliability but adds to the costs of the system.
- It is a great benefit to the community; cost saving for staff.
- Phasing this project based on priorities would be beneficial.
- A detailed breakdown of budget item D2 would have been beneficial.
- The planning budget for design seemed high.
- CEQA NOE costs seem high as well as labor compliance fee for 1 year.
- The amount of water loss seems exorbitant. Are there other critical issues to focus on first? Would like to have seen more information on water loss projections.
- Would like to see some assistance for a project that might address more of the water loss concerns.