

NORTH COAST RESOURCE PARTNERSHIP 2018/19 IRWM Project Application

The North Coast Resource Partnership (NCRP) 2018/19 Project Application Instructions and additional information can be found at the NCRP 2018/19 Project Solicitation webpage (https://northcoastresourcepartnership.org/proposition-1-irwm-round-1-implementation-funding-solicitation/). Please fill out grey text boxes and select all the check boxes that apply to the project. Application responses should be clear, brief and succinct.

Project Applications will be accepted until 5:00 pm, March 8, 2019 March 15, 2019. 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 to kgledhill@westcoastwatershed.com

If you have questions, need additional information or proposal development assistance please contact:

- Katherine Gledhill at kgledhill@westcoastwatershed.com or 707.795.1235
- Tribal Projects: Sherri Norris, NCRP Tribal Coordinator at sherri@cieaweb.org or 510.848.2043

Project Name: Water System Emergency Generator Project

A. ORGANIZATION INFORMATION

1. Organization Name: Smith River Community Services District

2. Contact Name/Title

Name: Eric Shearer Title: General Manager

Email: general.manager@srwater.net

Phone Number (include area code): 559-676-0830

3. Organization Address (City, County, State, Zip Code):

241 First Street, Smith River, Del Norte County, CA 95567

4. Organization Type

Public agency

	 Non-profit organization ✓ Public utility ☐ Federally recognized Indian Tribe ☐ California State Indian Tribe listed on the Native American Heritage Commission's California Tribal Consultation List ☐ Mutual water company ☐ Other:
5.	Authorized Representative (if different from the contact name)
	Name: Title:
	Email:
	Phone Number (include area code):
6.	Has the organization implemented similar projects in the past? ⊠ yes ☐ no
	Briefly describe these previous projects. The Smith River CSD is a small rural water system. The District has grown incrementally over time, and
	has not required major upgrade project in recent history. This generator project is well within the
	District's capability to administer in conjunction with their on-call District Engineer, GHD Inc., who has implemented numerous similar projects within the last 5 years.
7.	List all projects the organization is submitting to the North Coast Resource Partnership for the 2018/19 Project Solicitation in order of priority. Water System Emergency Generator Project
8.	Organization Information Notes:
	ELIGIBILITY
1.	North Coast Resource Partnership and North Coast IRWM Objectives
	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
	Objective 3 - Integrate Traditional Ecological Knowledge in collaboration with Tribes to incorporate
	these practices into North Coast Projects and Plans
	GOAL 2: ECONOMIC VITALITY
	Objective 4 - Ensure that economically disadvantaged communities are supported and that project
	implementation enhances the economic vitality of disadvantaged communities by improving built and natural infrastructure systems and promoting adequate housing
	Objective 5 - Conserve and improve the economic benefits of North Coast Region working
	landscapes and natural areas

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UR	BAN WATER MANAGEMENT PLAN
a)	Is the organization required to file an Urban Water Management Plan (UWMP)?
	yes no
b)	If Yes, list the date the UWMP was approved by DWR:
c)	Is the 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
c)	If Yes, will the organization be able to provide compliance documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project? yes no
AG	RICULTURAL WATER MANAGEMENT PLAN
a)	Is the organization – or any organization that will receive funding from the project – required to file an Agricultural Water Management Plan (AWMP)? yes no
h١	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?
C)	yes no
SUI	RFACE WATER DIVERSION REPORTS
a)	Is the organization required to file surface water diversion reports per the requirements in CWC Part 5.1 Division 2?
d)	If Yes, will the organization be able to provide SWRCB verification documentation outlined in the instructions, to include in the NCRP Regional Project Application should the project be selected as a Priority Project? yes no
STC	DRM WATER MANAGEMENT PLAN
a)	Is the project a stormwater and/or dry weather runoff capture project?
aj	yes no
b)	If yes, does the project benefit a Disadvantaged Community with a population of 20,000 or less? yes no yes no yes no
e)	

C. GENERAL PROJECT INFORMATION

1. Project Name: Water System Emergency Generator Project

2.	Eligible	Project Type under 2018/19 IRWM Grant Solicitation
		Water reuse and recycling for non-potable reuse and direct and indirect potable reuse
		Water-use efficiency and water conservation
		Local and regional surface and underground water storage, including groundwater aquifer
		cleanup or recharge projects
	\boxtimes	Regional water conveyance facilities that improve integration of separate water systems
	\boxtimes	Watershed protection, restoration, and management projects, including projects that reduce
		the risk of wildfire or improve water supply reliability
		Stormwater resource management projects to reduce, manage, treat, or capture rainwater or
		stormwater
		Stormwater resource management projects that provide multiple benefits such as water quality
		water supply, flood control, or open space
		Decision support tools that evaluate the benefits and costs of multi-benefit stormwater projects
		Stormwater resource management projects to implement a stormwater resource plan
		Conjunctive use of surface and groundwater storage facilities
		Decision support tools to model regional water management strategies to account for climate
		change and other changes in regional demand and supply projections
		Improvement of water quality, including drinking water treatment and distribution,
		groundwater and aquifer remediation, matching water quality to water use, wastewater
		treatment, water pollution prevention, and management of urban and agricultural runoff
		Regional projects or programs as defined by the IRWM Planning Act (Water Code §10537)
	\Box	Other:

3. 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.

4. Project Description

The proposed project is to add permanently mounted generators at the main control building and well site and the five pump stations where no permanently mounted generators exist currently. These locations were identified to be critical infrastructure. A layout of the system can be found in Exhibit A. The Project will mitigate for loss of power during severe storms (including high winds), earthquakes, fires, and floods. The proposed project includes installation of the following:

- One 125 kW generator at the Main Control Building
- One 80 kW generator at the Ocean Heights Pump Station
- Two 80 kW generators, one at each of the two the Spyglass Pump Stations
- Two 80 kW generators, one at each of the two the Nautical Heights Pump Stations

In addition to addressing unplanned power outages, Smith River CSD has been informed by Pacific Power, which provides electricity in the area, the District should be prepared for rolling blackout resulting from concerns related wind driven fire risks. These rolling blackout could occur with very little notice and for unknown extended periods of time.

5. Specific Project Goals/Objectives

Goal 1: Mitigate the loss of power during severe storm, earthquakes, fires, and floods.

Goal 1 Objective: Install 6 permanently mounted generators at the main control building and 5 pump stations to provide back up power to maintain system function.

Goal 1 Objective: Reduce the need for staff to work in hazardous conditions during power outages.

Goal 1 Objective: Prepare for Pacific Power's rolling blackouts, allow SRCSD to provide power to water system during planned blackouts.

Goal 1 Objective: Ensure water supply reliability and qulity to the public served by SRCSD.

Goal 2: Eliminate the need for SRCSD employees to secure & provide portable generators during power outages

Goal 2 Objective: Minimize the need for employees to be handling power during storm events.

Goal 2 Objective: Eliminate staffing requirements in regards to emergency power during power outages.

Goal 2 Objective: Enhance staff safety by not requiring employees to work during unsafe storm

conditions, including working in the dark and inclement weather.

Goal 2 Objective:

Goal 3: Enhance Fire-Fighting Capabilities

Goal 3 Objective: Allow fire department to use water to fight fires as opposed to other containment methods.

Goal 3 Objective: Provide emergency power to run pumps so the water tanks can be filled. Maintain fireflow requierments.

Goal 3 Objective: Provide back up power for rolling blackouts to maintina fire wter storage.

Additional Goals & Objectives (List)

6. Describe how the project addresses the North Coast Resource Partnership and North Coast IRWM Plan Goals and Objectives selected.

The Water System Emergency Generator Project, supports the DAC by improving the water infrastructure, allowing SRCSD to provide the community with a reliable water source during power outages. This enhances the economic vitality of the DAC by allowing businesses to function as normal during power outages. The project also address climate change, see section C(15) for a more detailed explanation. Another benefit of the project is that water efficiency is enhanced by not creating issues in the system. Problems ensue if the water tanks empty, the distribution system has the potential to draw contaminants into the system from the vacuum effect in the distribution lines. If this were to happen, the Health Department would require disinfection, causing the water system to be down for an undetermined amount of time, causing major inefficiencies. During this time, the community would not have water service.

7. Describe the need for the project.

Back up power is critical to SRCSD's operation as evidenced a recent structure fire on May 6, 2017 that occurred in Smith River and cut off power to the control building. The fire flows were met from the South 250,000 gallon storage tank adjacent to the downtown area. The District arrived on site and found that the fire department was running 2 hydrants to control the fire and had drained the South tank to less than 25,000 gallons. Since the fire had also cut off power service to the control building there was no way to obtain additional flow by turning on the pumps. The fire department had to use containment methods rather than extinguishing the fire to conserve water. There was light wind on that day. Had the wind picked up to high wind speeds as is typical, the fire would have spread to the adjacent elderly

the fire limited the fire departments ability to extinguish the fire. 8. List the impaired water bodies (303d listing) that the project benefits: N/A 9. Will this project mitigate an existing or potential Cease and Desist Order or other regulatory ves \bowtie no compliance enforcement action? If so, please describe? 10. Describe the population served by this project. The project serves the community of Smith River, a Disadvantaged Community (DAC), with a population of 2,568 and a median household income of \$43,707. The project locations also serve members of the Tolowa Dee-Ni Nation connected to the Smith River system. 11. Does the project provide direct water-related benefits to a project area comprised of Disadvantaged **Communities or Economically Distressed Communities?** X Entirely Partially No List the Disadvantaged Community(s) (DAC) Smith River (Del Norte County) 12. Does the project provide direct water-related benefits to a project area comprised of Severely **Disadvantaged Communities (SDAC)?** Entirely Partially ⊠ No List the Severely Disadvantaged Community(s) 13. Does the project provide direct water-related benefits to a Tribe or Tribes? Entirely **Partially** No

mobile home park with no way of immediately containing the fire. The lack of a backup generator during

List the Tribal Community(s)

Tolowa Dee-Ni Nation. The Smith River CSD has not initiated outreach directly to the Tolowa Dee-Ni (TDN) Nation. However some of the TDN is served from the Smith River CSD and the entire tribal system is cross-connected with the Smith River CSD system in order to supplement the tribal system because the tribal system is not reliable. Thus, the project supports continued reliable supply of water to Tribal members during power outages.

If yes, please provide evidence of support from each Tribe listed as receiving these benefits.

14. If the project provides benefits to a DAC, EDA or Tribe, explain the water-related need of the DAC, EDA or Tribe and how the project will address the described need.

SRCSD requires onsite emergency power to run the water system during power outages, this project would provide onsite emergency power to the main control building, and 5 pump houses, thus allowing SRCSD to continue to run the system as normal even during power outages. This will allow SRCSD to continue to provide water to the DAC, including the Tolowa Dee-Ni Nation.

15.	Does the project address and/or adapt to the effects of climate change? Does the project address the climate change vulnerabilities in the North Coast region? yes no lf yes, please explain.
	This project addresses the climate change vulnerabilities in the North Coast Region. It is predicted that climate change will produce more storms, increasing the number of power outages per year. This project will provide SRCSD with onsite emergency power allowing the water system to continue to function during power outages.
16.	Describe how the project contributes to regional water self-reliance. This project contributes to regional water self-reliance by providing water service and fire protection for areas within the District during power outages. The District currently does not have any backup power supply so all power losses affect the District's ability to maintain water service. The District is subject to annual power outages caused by severe storms, earthquakes, fires, and floods, and estimates residents currently experience approximately 10 power outages per year which affect the water system. Heavy rain storms can also cause landslides which can take out electrical lines, leaving the District's water system vulnerable.
17.	Describe how the project benefits salmonids, other endangered/threatened species and sensitive habitats. N/A
18.	Describe local and/or political support for this project. This project contributes to regional water self-reliance, which currently has political support. The local community is anticipated to support the project, as it will provide the community with a reliable water source during power outages.
19.	List all collaborating partners and agencies and nature of collaboration. Smith River Fire Protection District
20.	Is this project part or a phase of a larger project? Are there similar efforts being made by other groups? If so, please describe?
21.	Describe the kind of notification, outreach and collaboration that has been done with the County(ies) and/or Tribes within the proposed project impact area, including the source and receiving watersheds, if applicable.
	No outreach or collaboration has been done at this time. Outreach with the County and Tolowa Dee-Ni

22. Describe how the project provides a benefit that meets at least one of the Statewide Priorities as defined in the 2018 IRWM Grant Program Guidelines and Tribal priorities as defined by the NCRP?

Nation will be done during the initial design and environmental phases.

The project provides a benefit and meets the following Statewide and Tribal Priorities: Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government through providing independent power for the isolated community whose water system can be used to supply water to the nearby Tolowa Dee-Ni Nation; Provide Safe Water for All Communities through ensuring a reliable supply is available during power outages for the community and for fighting fires.

23	Project	Information	Notes:
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D. PROJECT LOCATION

1. Describe the location of the project

Geographical Information

The location of each proposed generator is included in Exhibit A and the following locations are specifically included in this project is as follows: Main Control Building (41.922996, -124.145587), Ocean Heights Pump Station (41.950507, -124.197123), Spyglass Pump Station 1 (41.974459, 124.197749), Spyglass Pump Station 2 (41.973012, -124.192576), Nautical Heights Pump Station 1 (41.982929, -124.197632), Nautical Heights Pump Station 2 (41.983756, -124.193187)

2. Site Address (if relevant):

Multiple - See Exhibit A.

3.	Does the applicant have legal access rights, easements, or other access capabilities to the property to
	implement the project?
	Yes If yes, please describe
	No If No, please provide a clear and concise narrative with a schedule, to obtain necessary access.
	NA If NA, please describe why physical access to a property is not needed.
	The land ownership and rights of way that the District will use to construct the project are described fo
	each of the six sites below.: Main Control Building& Ocean Heights Pump Station: District owned parce
	Spyglass Pump Station #1 and #2: The District has an easement on the parcel the generator is proposed
	to be located; Nautical Heights Pump Station #1: The District has an easement on the parcel the
	generator is proposed to be located; Nautical Heights Pump Station #2 District owned parcel

4. Project Location Notes:

E. PROJECT TASKS, BUDGET AND SCHEDULE

1. Projected Project Start Date: 7/1/20
Anticipated Project End Date: 7/1/22

2.	Will CEQA	be complet	ed within	6 months o	f Final /	Award?

Yes	State Clearinghouse Number:
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NA, Project is exempt from CEQA
NA, Not a Project under CEQA
NA, Project benefits entirely to DAC, EDA or Tribe, or is a Tribal local sponsor. [Projects providing a
water-related benefit entirely to DACs, EDAs, or Tribes, or projects implemented by Tribes are exempt
from this requirement].
□ No

3. Please complete the CEQA Information Table below

Indicate which CEQA steps are currently complete and for those that are not complete, provide the estimated date for completion.

CEQA STEP	COMPLETE? (y/n)	ESTIMATED DATE TO COMPLETE
Initial Study	N/A	
Notice & invitation to consult sent to Tribes per AB52	N/A	
Notice of Preparation	N/A	
Draft EIR/MND/ND	N/A	
Public Review	N/A	
Final EIR/MND/ND	N/A	
Adoption of Final EIR/MND/ND	N/A	
Notice of Determination	N/A	
N/A - not a CEQA Project	Υ	

If additional explanation or justification of the timeline is needed or why the project does not require CEQA, please describe.

A California Environmental Qualty Act (CEQA) Noice of Exemption (NOE) will be completed. The NOE will be prepared based on the environmental evaluations conducted, include appropriate exemption citations, and be filed with the Del Norte County Clerk and California State Clearinghouse with the SRCSD as the lead agency.

4.	Will all permits necessary to begin construction be acquired within 6 months of Final Award?
	Yes
	NA, Project benefits entirely to DAC, EDA, Tribe, or is a Tribal local sponsor
	□No

5. PERMIT ACQUISITION PLAN

Type of Permit	Permitting Agency	Date Acquired or Anticipated
Coastal Development Permit	CA Coastal Commission	6/1/20
County Building Permit	Del Norte County	6/1/20
NCUAQMD Permit	NCUAQMD	6/1/20

For permits not acquired: describe actions taken to date and issues that may delay acquisition of permit.

	6.	Describe	the f	financial	need t	for t	the I	proi	ec	t.
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The Smith River CSD is a small rural water system. The management of the system has improved in recent years with support staff including an auditor, attorney, and on-call engineer contracted to help the District plan for the future. The Smith River is economically disadvantaged and increases in water rates to cover capital improvements can be a hardship for many community members. The District is on track for 75% FEMA grant funding for the project, but need support for the non-Federal match.

7. Is the project budget scalable? yes no Describe how a scaled budget would impact the overall project.

The District would not be able to install generators at all 6 locations. This would result in the loss of water services during power outages as the intake pumps will not operate and the water storage tanks that are not fed by a location with a generator will not be able to fill. This would mean, the locations without tank filling capabilies would not be able to service specified houses with water, and would put those areas at risk for potential loss of property or life due to fire.

8. Describe the basis for the costs used to derive the project budget according to each budget category.

The Direct Project Administration costs are based on experience with similar grant funded projects. There are no land purchase or easement costs. Planning/Design/Engineering/Environmental Documentation were estimated by the District's on-Call engineer, GHD Inc. based on similar project experience. Construction Implementation budgets are based on a compilation of previous project bid costs and quotes, and updated based on engineering judgment for the site specific conditions in Smith River.

9. Provide a narrative on cost considerations including alternative project costs.

An alternative project would be to purchase a main generator for the treatment and control site and two portable generators to cover the remaining five booster pump stations. The portable generators would need to be moved around the booster pump stations, and may not be in the right place when needed. This alternatives is less environmentally friendly as the portable generators would need to be transported typically in a hurry as power outages ocurred, often in poor weather.

10. List the sources of non-state matching funds, amounts and indicate their status.

A project subapplication has been submitted to the Hazard Mitigation Grant Program (HMGP), DR-4344 for the SRCSD for the Water System Emergency Generator Project. Project number DR-4344-0494. The application is currently in review. The FEMA cost share would be \$870,000.

11. List the sources and amount of state matching funds.

\$0.00

Cost Share Waiver Justification: Describe what percentage of the proposed project area encompasses a DAC/EDA, how the community meets the definition of a DAC/EDA, and the water-related need of the DAC/EDA that the project addresses. In order to receive a cost share waiver, the applicant must demonstrate that the project will provide benefits that address a water-related need of a DAC/EDA. The proposed project is within a Disadvantaged Community (DAC), and also serves the Tolowa Dee-Ni Nation. The DAC mapping tool shows the boundry of the DAC, the project locations are all within the

DAC. This project will allow SRCSD to continue to provide water to the DAC and Tribe during power outages.

13. Major Tasks, Schedule and Budget for NCRP 2018 IRWM Project Solicitation
 Please complete MS Excel table available at https://northcoastresourcepartnership.org/proposition-1-irwm-round-1-implementation-funding-solicitation/; see instructions for submitting the required excel document with the application materials.
 14. Project Tasks, Budget and Schedule Notes:

F. PROJECT BENEFITS & JUSTIFICATION

Does the proposed project provide physical benefits to multiple IRWM regions or funding area(s)?
☐ yes ⊠ no
If Yes, provide a description of the impacts to the various regions.

2. Provide a narrative for project justification. Include any other information that supports the justification for this project, including how the project can achieve the claimed level of benefits. List any studies, plans, designs or engineering reports completed for the project. Please see the instructions for more information about submitting these documents with the final application.
The proposed action is to install generators at the main treatment and control site and at the five booster pump stations located throughout the District. The project was selected because it reliably assures continued power to the water supply pumps and booster pump stations during power outages. It was the preferred alternative as it provides the most reliable back up supply compared with portable generator options. The propane generator was selected as it has lower maintenance than a gas generator and the system can be left idle for longer without testing. The alternative is environmentally preferred as it can be permanently mounted at the site, preventing future site damage from portable generators. The alternative is economically preferred as it has the best outcome of keeping the water system operating during a power outages.

3.	Does the project address a contaminant listed in AB 1249 (nitrate, arsenic, perchlorate, or hexavalent chromium)?
4.	Does the project provide safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes consistent with AB 685? yes no lf Yes, please describe.

This project will allow SRCSD to provide safe, clean, affordable, and accessible water adequate for human consumption to community members during power outages.

5.	Does the project employ new or innovative technologies or practices, including decision support tools
	that support the integration of multiple jurisdictions, including, but not limited to, water supply, floor
	control, land use, and sanitation?
	If Yes, please describe.
	Each generator will have an automatic transfer switch, this will allow the generators to automatically
	turn on during storm events, providing power to the main control building and pump stations. This will
	allow SRCSD to provide water to community members during storm events. The automatic transfer
	switches also helps keep employees safe by not requiring them to manually turn the generators on
	during storm events.

6. For each of the Potential Benefits that the project claims complete the following table to describe an estimate of the benefits expected to result from the proposed project. [See the NCRP Project Application Instructions, Potential Project Benefits Worksheet and background information to help complete the table. The NCRP Project Application, Attachment B includes additional guidance, source materials and examples from North Coast projects.]

PROJECT BENEFITS TABLE

Potential Benefits Description	Physical Amt of Benefit	Physical Units	Est. Economic Value per year	Economic Units
Water Supply	1 20.10.10		pa. jau.	J
Increased Water Supply Reliability	128,400	gallons	128,400	gal/year
Avoided Water Shortage Costs	\$342,000	\$	\$342,000	\$/year
	-			
Water Quality				
Bacteria Contaminant Reduction				(1)
Avoided Water Treatment Costs				(1)
Other Ecosystem Service Benefits				
Reduced Risk of Wildfire	-	-	-	(2)
Enhanced Fire-Fighting Capabilities	-	-	-	(2)

Potential Benefits Description	Physical Amt of Benefit	Physical Units	Est. Economic Value per year	Economic Units
Other Benefits				
Enhancement of Beneficial Uses: Tribal Cultural Uses	-	-	-	(3)
Social Health and Safety	-	-	-	(4)

7. Project Justification & Technical Basis Notes:

- (1) Bacteria Contaminant Reduction and Avoided Water Treatment Costs: In the event of a power outage, the pumps are unable to kick on to fill the tanks. If the tanks empty, water will dwindle in the distribution system. The distribution system has the potential to draw contaminants into the system from the vacuum effect. If contaminants get into the distribution system, the Health Department would require disinfection, this would not only cause the water system to go offline, but also has costs associated with the emergency disinfection.
- (2) A recent structure fire on May 6, 2017 occurred in the downtown area of Smith River in the early morning hours and cut off power to the control building, which severely limited the fire flows. The fire flows were met from the South 250,000 gallon storage tank adjacent to the downtown area. When the District arrived on site they found that the fire department was running two hydrants to control the fire and had drained the South tank to less than 25,000 gallons, or 2-feet of storage. Since the fire had also cut off power service to the control building there was no way to obtain additional fire flows by turning on the pumps. The fire department had to use containment methods rather than extinguishing the fire to conserve water. There was light wind on that day. Had the wind picked up to high wind speeds as is typical, the fire would have spread to the adjacent elderly mobile home park with no way of immediately containing the fire. The lack of a backup generator during the fire severely limited the fire department's ability to extinguish the fire.
- (3) This project would provide the Tribe with a reliable water source, despite power outages. The Tribal system that is connected into the CSD's system is not reliable, so having SRCSD improve system reliability would greatly benefit the Tribe. During times when the Tribal water system is not working, they can rely on the District's services to provide them water, they will not have to worry about power outages impacting the CSD's water distribution.
- (4)The loss of water service and fire protection for areas within the District as a result of power outages due to severe storms (including high winds), earthquakes, fires, and floods greatly impacts the community. The District manages the water service for the community. The District currently does not have any backup power supply so all power losses affect the District's ability to maintain water service. The District is subject to annual power outages caused by severe storms, earthquakes, fires, and floods, and estimates residents currently experience approximately 10 power outages per year which affect the water system. Heavy rain storms can also cause landslides which can take out electrical lines, leaving the District's water system vulnerable. The proposed project is to install generators at the main treatment and control site and at the five booster pump stations located throughout the District. The project was selected because it reliably

assures continued power to the water supply pumps and booster pump stations during power outages, greatly benefiting the communities social health and safety.

Major Tasks, Schedule and Budget for North Coast Resource Partnership 2018/19 IRWM Project Solicitation

 Project Name:
 Water System Emergency Generator Project

 Organization Name:
 Smith River Community Services District

Task #	Major Tasks	Task Description	Major Deliverables	Current Stage of Completion	IRWM Task Budget	Non-State Match	Total Task Budget	Start Date	Completion Date
A	Category (a): Direct Project Ad	ministration		- Jeompietion			ı		1
	1 Administration	In cooperation with the County of Humboldt sign a sub-grantee agreement for work to be completed on this project. Develop invoices with support documentation. Provide audited financial statements and other deliverables as	Invoices, audited financial statements and other deliverables as required	0%	\$2,415.00	\$7,245.00	\$9,660.00	7/1/20	7/1/22
	2 Monitoring Plan	Develop Monitoring Plan to include goals and measurable objectives	Final Monitoring Plan	0%	\$705.00	\$2,115.00	\$2,820.00	7/1/20	8/1/20
	3 Labor Compliance Program	Execute service agreement with Labor Compliance Program company	Submission of Labor Compliance Program	0%	\$3,300.00	\$9,900.00	\$13,200.00	7/1/20	7/1/22
,	4 Reporting	Develop monthly reports describing work completed, challenges, and strategies for reaching remaining project objectives. Develop Final Report	Quarterly and Final Reports	0%	\$5,115.00	\$15,345.00	\$20,460.00	7/1/20	7/1/22
В	Category (b): Land Purchase/Ea	asement			<u> </u>			1	l
	1			0%	\$0.00	\$0.00	\$0.00		
С	Category (c): Planning/Design/	Engineering/Environmental Documentation	<u> </u>		•		•		•
	1 Preliminary Design / Plans	Develop preliminary project plans and specifications for water systems emergency generator project	Preliminary topographic surveys, and preliminary (65%) designs	0%	\$4,955.00	\$14,865.00	\$19,820.00	9/1/20	1/1/21
	2 Final Design /Plans	Develop project plans and specifications for water systems emergency generator project	Topographic surveys, and preliminary (100%) designs	0%	\$23,538.00	\$70,612.00	\$94,150.00	1/1/21	5/1/21
,	3 Environmental Documentation: CEQA/NEPA *	NEPA and CEQA Evaluation	Certified NEPA document and CEQA Notice of Exemption	0%	\$2,443.00	\$7,327.00	\$9,770.00	7/1/20	1/1/21
	4 Permit Development:	Permit Development	Final permits	0%	\$2,138.00	\$6,412.00	\$8,550.00	7/1/20	12/1/20
	5 Surveying	Complete land/topographic survey work needed for project design	Final Survey Stamped By a Licensed Land Surveyor	0%	\$5,000.00	\$15,000.00	\$20,000.00	7/1/20	12/1/20
	6 Flood Analysis	Flood Elevation Analysis	Flood Analysis Report	0%	\$3,625.00	\$10,875.00	\$14,500.00	10/1/20	1/1/21
D	Category (d): Construction/Imp	plementation		1	1	l	I.		
	1 Construction Contracting/ Bid Period Services	Develop advertisement for bids and contract documents; conduct pre-bid contractors meeting; perform evaluation of bids; award contract	Summary of Bids and Contract Award	0%	\$1,500.00	\$4,500.00	\$6,000.00	1/1/21	3/1/21
	2 Project Construction/Implementation: See detail back up for line item costs	Inspect project components and establish that work is complete. Verify that all project components have been installed and are functioning as specified will be conducted as part of construction inspection and project closeout. Conduct project completion photo monitoring. Prepare record drawings.	Notice of completion filed with Del Norte County.	0%	\$242,611.00	\$630,504.00	\$873,115.00	5/1/21	11/1/21
	3 Construction Administration	Complete tasks necessary to administer construction contract. Keep daily records of construction activities, inspection, and progress. Conduct project construction photo-monitoring.	Construction Management Logs; Completed construction administration tasks documented in monthly progress reports	0%	\$21,875.00	\$65,625.00	\$87,500.00	1/1/21	7/1/22
	4 Project Close Out, Inspection & Demobilization	Inspect project components and establish that work is complete. Verify that all project components have been installed and are functioning as specified will be conducted as part of construction inspection and project closeout. Conduct project completion photo monitoring. Prepare record drawings.	As-Built and Record Drawings; Project completion site photos	0%	\$2,600.00	\$7,800.00	\$10,400.00	1/1/22	3/1/22
	5 Project Performance Monitoring	The performance of the project will be monitored in accordance to the Monitoring Plan using the following measurement tools and methods:	Annual Monitoring Report for three years after construction completion.	0%	\$625.00	\$1,875.00	\$2,500.00	3/1/22	3/1/25
	Total North Coast Resource	Partnership 2018/19 IRWM Grant Request		•	\$322,445.00	\$870,000.00	\$1,192,445.00		
	Is Requested Budget scalable b	by 25%? If yes, indicate scaled totals; if no delete budget amount provice	led.		N/A		N/A		
					N/A		N/A		
	is requested budget scalable b	by 50%? If yes, indicate scaled totals; if no delete budget amount provide	ieu.		N/A		N/A		

Budget Detail for North Coast Resource Partnership 2018/19 IRWM Project Solicitation

Project Name:Water System Emergency Generator ProjectOrganization Name:Smith River Community Services District

Budget Detail

Row (a) Direct Project Administration Costs					
Major Task Name	Personnel by Discipline	Number of Hours	Hourly Wage	% of Cost (if applicable) *	Total Admin Cost
A.1 Administration	Project Manager	40	\$165		\$6,600
A.1 Administration	Staff Engineer	8	\$120		\$960
A.1 Administration	Administrative Assistance	20	\$80		\$1,600
A.1 Administration	Community Service District GM	10	\$50		\$500
A.2 Monitoring Plan	Project Manager	4	\$165		\$660
A.2 Monitoring Plan	Staff Engineer	18	\$120		\$2,160
A.3 Labor Compliance Program	Labor Compliance Consultant	110	\$120		\$13,200
A.4 Reporting	Project Manager	60	\$165		\$9,900
A.4 Reporting	Staff Engineer	8	\$120		\$960
A.4 Reporting	Administrative Assistance	120	\$80		\$9,600
Total					\$46,140
* What is the percentage based on (including total			n/a		
* How was the percentage of cost determined?			n/a		

Row (b) Land Purchase/Easement

Row (c) Planning/Design/Engineering & Environmental Documentation						
Personnel (Discipline)	Major Task Name	Number of Hours	Hourly	Total Cost		
			Wage			
Project Manager	C.1 Preliminary Engineering Design	20	165	\$3,300		
Electrical Engineer	C.1 Preliminary Engineering Design	60	150	\$9,000		
Staff Engineer	C.1 Preliminary Engineering Design	60	120	\$7,200		
Administrative Assistant	C.1 Preliminary Engineering Design	4	80	\$320		
Senior Engineer	C.2 Final Engineering Design	140	180	\$25,200		
Electrical Engineer	C.2 Final Engineering Design	225	150	\$33,750		
Staff Engineer	C.2 Final Engineering Design	260	120	\$31,200		
Administrative Assistant	C.2 Final Engineering Design	50	80	\$4,000		
CEQA Categorical Exemption/ AB 52 Compliance	C.3 CEQA/NEPA Compliance	16	120	\$1,920		
CEQA Categorical Exemption filing fee	C.3 CEQA/NEPA Compliance	-	-	\$50		
NEPA Review for FEMA Grant	C.3 CEQA/NEPA Compliance	65	120	\$7,800		
Permit Development	C.4 Permit Development	54	120	\$6,480		
Permit Fees	C.4 Permit Fees	-	-	\$2,070		
Survey: Survey Team	C.5 Surveying	50	400	\$20,000		
Staff Engineer	C.6 Flood Analysis	116	125	\$14,500		
Total				\$166,790		

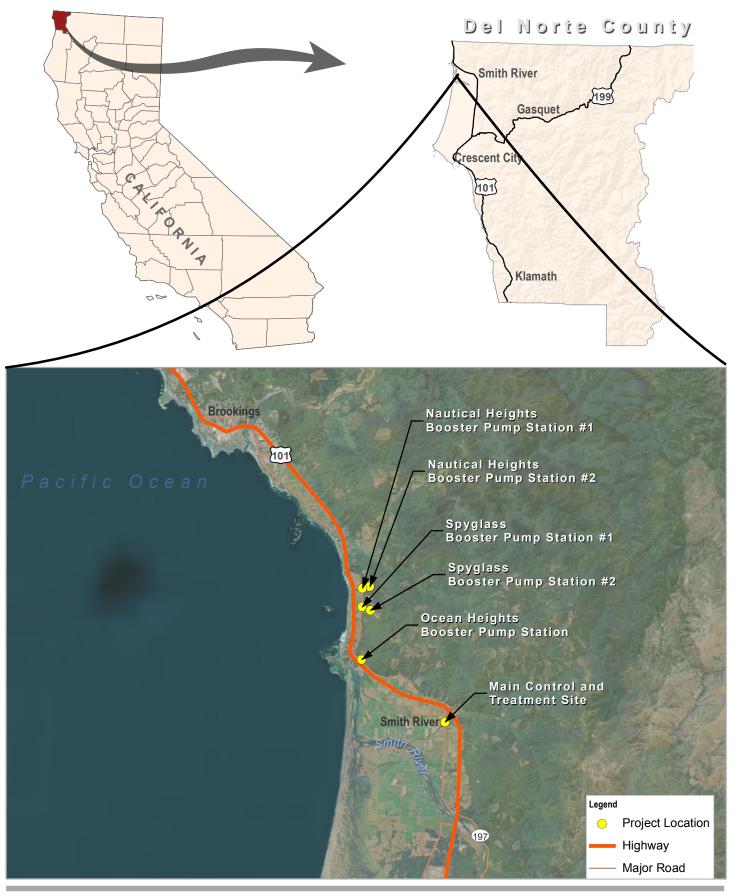
Row (d) Construction/Implementation				
Personnel (Discipline)	Work Task and Sub-Task	Number of Hours	Hourly	Total Cost
	(from Work Task Table)		Wage	
Construction Contracting/ Bid Period Services Team	D.1 Construction Contracting/ Bid Period	40	\$150	\$6,000
average hourly rate	Services			
Construction Administration/ Inspection Team	D.3 Construction Inspection /Administration	625	\$140	\$87,500
average hourly rate				
Project Close Out Team average hourly rate	D.4 Construction Project Closeout	80	\$130	\$10,400
Project Performance Monitoring Team average	D.5 Project Performance Monitoring	20	\$125	\$2,500
hourly rate				
Sub-Total				\$106,400

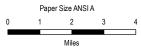
Budget Detail for North Coast Resource Partnership 2018/19 IRWM Project Solicitation

Project Name:Water System Emergency Generator ProjectOrganization Name:Smith River Community Services District

Materials and Equipment	Work Task and Sub-Task (from Work Task Table)	Number of Units	Units	Unit Cost		Total Cost		
Bonds and Insurance/ Mobilization / Demobilization	D.2 Construction Implementation	20	DAY	3800		\$76,000		
Traffic Control	D.2 Construction Implementation	8	DAY	50	500		\$4,000	
Construction Staking	D.2 Construction Implementation	5	DAY	1200		\$6,000		
Clearing and Grubbing	D.2 Construction Implementation	605	SF	\$	5.00	\$	3,025	
6" Concrete Equipment Pad - 8 kW Generator	D.2 Construction Implementation	250	SF	\$	100.00	\$	25,000	
6" Concrete Equipment Pad - 125 kW Generator	D.2 Construction Implementation	60	SF	\$	100.00	\$	6,000	
Concrete Equipment Pad - Propane Tank (6 Total)	D.2 Construction Implementation	240	EA	\$	100.00	\$	24,000	
80 kW Generator	D.2 Construction Implementation	5	EA	\$	63,000.00	\$	315,000	
125 kW Generator	D.2 Construction Implementation	1	EA	\$	91,790.00	\$	91,790	
250 Gallon Propane Tank	D.2 Construction Implementation	5	EA	\$	16,000.00	\$	80,000	
325 Gallon Propane Tank	D.2 Construction Implementation	1	EA	\$	20,000.00	\$	20,000	
3/4" Propane Piping	D.2 Construction Implementation	120	LF	\$	60.00	\$	7,200	
Propane Valves	D.2 Construction Implementation	18	EA	\$	200.00	\$	3,600	
Pressure Regulator	D.2 Construction Implementation	6	EA	\$	150.00	\$	900	
Automatic Transfer Switch	D.2 Construction Implementation	6	EA	\$	10,000.00	\$	60,000	
Electrical Conduits and Cabling	D.2 Construction Implementation	300	LF	\$	300.00	\$	90,000	
Electrical Panel	D.2 Construction Implementation	6	EA	\$	3,500.00	\$	21,000	
Bollards	D.2 Construction Implementation	36	EA	\$	1,100.00	\$	39,600	
						\$873,115		
Total Construction/Implementation Costs							\$979,515	

Grand Total \$1,192,445





Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

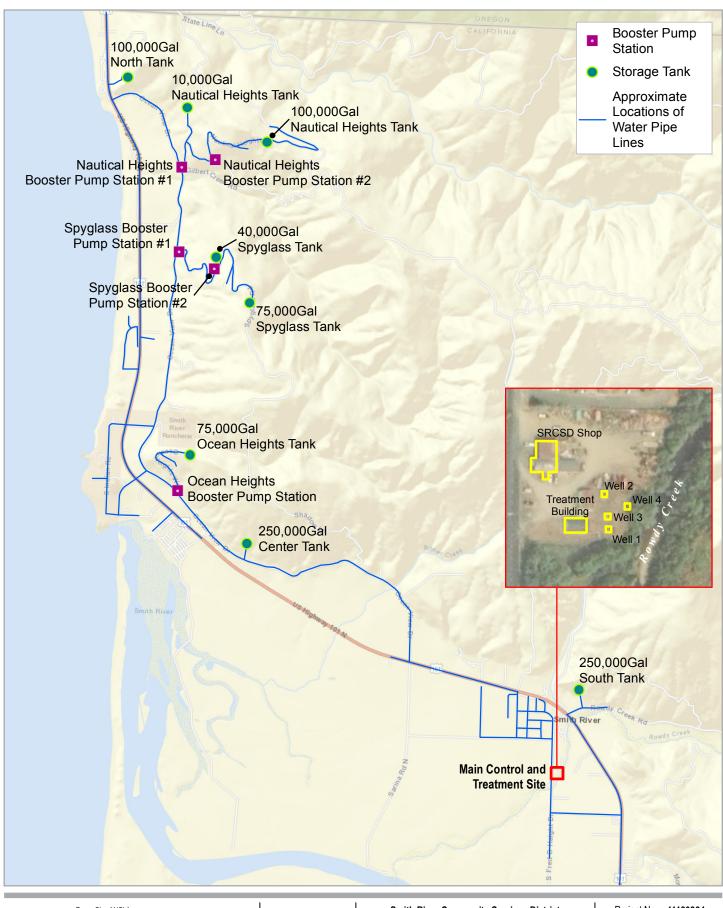


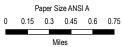


Smith River Community Services District Water System Emergency Generator Project Hazard Mitigation Grant Application Project No. 11180834 Revision No. -

Date August 2018

Vicinity Map





Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



GHD

Smith River Community Services District Water System Emergency Generator Project Hazard Mitigation Grant Application Project No. 11180834
Revision No. -

Date August 2018

Water System Infrastructure







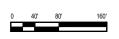


Project Map
Main Control and Treatment Building

Project No. 11180834

Report No. Date August 2018









Project Map Ocean Heights Pump Station Project No. 11180834

Report No. Date August 2018









Project Map Spyglass Pump Station No. 1

Project No. 11180834
Report No. Date August 2018









Project Map Spyglass Pump Station No. 2

Project No. 11180834
Report No. Date August 2018









Project Map Nautical Heights Pump Station No. 1 Project No. 11180834

Report No. Date August 2018









Project Map Nautical Heights Pump Station No. 2 Project No. 11180834

Report No. Date August 2018

EXHIBIT A: PROJECT AREAS Smith River Water System Emergency Generator Project