



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: LCSD Water Distribution System Replacement Project

A. ORGANIZATION INFORMATION

1. Organization Name: Lewiston Community Services District (LCSD)

2. Contact Name/Title

Name: Mel Deardorff

Title: Board President

Email: meldeardorff@gmail.com

Phone Number (include area code): (530) 778-3018

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

P.O. Box 164 Texas Ave.

Lewiston, Trinity, CA, 96052

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: Same as Contact 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.

All projects listed below were funded by IRWM.

-Water Meter Project: Installation of 169 water meters so that LPMWC could monitor water consumption in an effort to conserve water.

-Lewiston Valley Water Intertie Project: Installation of approximately 3,650 feet of water main connecting LPMWC with LCSD.

-Third Avenue Water Main Replacement: Replacement of approximately 300 feet of water main within LPMWC distribution system that was found to be leaking.

7. List all projects the organization is submitting to the North Coast Resource Partnership for the 2018/19 Project Solicitation in order of priority.

LCSD Water Distribution System Replacement Project

8. Organization Information Notes:

Lewiston Park Mutual Water Company (LPMWC) was subsumed under LCSD in July 2018. LPMWC was able to complete both the Water Meter Project and Third Avenue Water Main Replacement Project thanks to funding received by NCRP. LCSD now owns and operates the groundwater wells, water distribution system, wastewater collection system, and wastewater treatment plant within the Lewiston Park Subdivision, formerly LPMWC.

B. 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

GOAL 3: ECOSYSTEM CONSERVATION AND ENHANCEMENT

☐ Objective 6 – Conserve, enhance, and restore watersheds and aquatic ecosystems, including functions, habitats, and elements that support biological diversity

☐ Objective 7 - Enhance salmonid populations by conserving, enhancing, and restoring required habitats and watershed processes

GOAL 4: BENEFICIAL USES OF WATER

☒ Objective 8 - Ensure water supply reliability and quality for municipal, domestic, agricultural, Tribal, and recreational uses while minimizing impacts to sensitive resources

☒ Objective 9 - Improve drinking water quality and water related infrastructure to protect public health, with a focus on economically disadvantaged communities

☒ Objective 10 - Protect groundwater resources from over-drafting and contamination

GOAL 5: CLIMATE ADAPTATION & ENERGY INDEPENDENCE

☒ Objective 11 - Address climate change effects, impacts, vulnerabilities, and strategies for local and regional sectors to improve air and water quality and promote public health

☒ Objective 12 - Promote local energy independence, water/ energy use efficiency, GHG emission reduction, and jobs creation

GOAL 6: PUBLIC SAFETY

☐ Objective 13 - Improve flood protection and reduce flood risk in support of public safety

2. Does the project have a minimum 15-year useful life?

☒ yes ☐ no

If no, explain how it is consistent with Government Code 16727.

N/A

3. Other Eligibility Requirements and Documentation

CALIFORNIA GROUNDWATER MANAGEMENT SUSTAINABILITY COMPLIANCE

a) Does the project that directly affect groundwater levels or quality?

☒ yes ☐ no

b) 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 See Attachment 1

CASGEM COMPLIANCE

- a) Does the project overlie a medium or high groundwater basin as prioritized by DWR?
☐ yes ☒ no
- b) If Yes, list the groundwater basin and CASGEM priority: N/A
- c) If Yes, please specify the name of the organization that is the designated monitoring entity: N/A
- d) If there is no monitoring entity, please indicate whether the project is wholly located in an economically disadvantaged community.
☒ yes ☐ no

URBAN 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: N/A
- 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
- e) 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

AGRICULTURAL 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
- b) If Yes, list date the AWMP was approved by DWR: N/A
- c) Does the agricultural water supplier(s) meet the requirements in CWC Part 2.55 Division 6?
☐ yes ☐ no

SURFACE WATER DIVERSION REPORTS

- a) Is the organization required to file surface water diversion reports per the requirements in CWC Part 5.1 Division 2?
☒ yes ☐ no
- 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 See Attachment 2

STORM WATER MANAGEMENT PLAN

- a) Is the project a stormwater and/or dry weather runoff capture project?
☐ yes ☒ no
- b) If yes, does the project benefit a Disadvantaged Community with a population of 20,000 or less?
☐ yes ☐ no
- e) If No, will the organization be able to provide documentation that the project is included in a Stormwater Resource Plan that has been incorporated into the North Coast IRWM Plan, should the project be selected as a Priority Project?

☐ yes ☐ no

C. GENERAL PROJECT INFORMATION

1. Project Name: LCSD Water Distribution System Replacement 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
- ☒ Regional water conveyance facilities that improve integration of separate water systems
- ☒ 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)
- ☐ Other:

3. 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 begin in conjunction with construction of the Wastewater Collection, Treatment, and Disposal Project in an effort to reduce costs.

4. Project Description

The Proposed Project is located in the community of Lewiston, Trinity County, California, approximately 16 road miles southeast of Weaverville, California and approximately 35 road miles west of Redding, Shasta County, California. LCSD is proposing to replace its distribution system within the Lewiston Park Subdivision. The existing Lewiston Park distribution system is composed of 4- to 6-inch asbestos cement pipe, which is 62 years old and appears to have been joined together with oakum. Oakum is a fiber that is impregnated with a tar-like substance, placed into the joint gap between the two pipes, and then sealed with lead. Furthermore, the LCSD has found one lead service connection along Texas Avenue and presumes there are more. Lead is a toxic metal that can be harmful to human health even at low exposure levels.

In analyzing water production versus consumption data between September 2018 and December 2018, LCSD currently has approximately 16,000 gallons per day (GPD) of unaccounted for water, or 22% water loss. There are known leaks within the Lewiston Park Subdivision distribution system that LCSD has been unable to locate. Water runoff witnessed year round near Third Avenue and Sutter Street contains a chlorine residual indicating the water is from the distribution system, see the chlorine residual monitoring results included as Attachment 3. Furthermore, the leak at Third Avenue and Sutter Street has begun to deteriorate the County-owned roadway, which LCSD will most likely be responsible for fixing.

For the protection of human health, the environment, and to conserve water, the Proposed Project includes:

- Installation of 10,275 feet of water main and appurtenances
- Reconnection of 151 service connections
- Relocation of 16 service connections
- Reconnect 9 fire hydrants
- Installation of new fire hydrant

Construction of the Proposed Project would begin upon receipt of all necessary preconstruction authorizations; consultation with appurtenant agencies; and receipt of regulatory permits if needed. In addition, funding source requirements will need to be met before and during project construction, as applicable. In an effort to save costs, construction is anticipated to be completed in conjunction with the construction of the Wastewater Collection, Treatment, and Disposal Project, anticipated to begin in summer 2019.

Upon completion of the Proposed Project, LCSD will have increased the reliability of their water distribution system. This should reduce both electrical and treatment costs as the amount of water to be pumped and treated should be reduced. With a new distribution system, LCSD should also see a reduction in the number of emergency repairs needed on a monthly basis, therefore saving in both maintenance and labor costs. Furthermore, a completely sealed distribution system will allow for increased pressure and flows enhancing fire fighting capabilities, as well as protecting the health and safety of the public.

5. Specific Project Goals/Objectives

Goal 1: Beneficial Uses of Water.

Goal 1 Objective: Improve drinking water infrastructure to protect public health.

Goal 1 Objective: Ensure water supply reliability and quality to the severely disadvantaged community of Lewiston.

Goal 1 Objective: Reduce water service disruption.

Goal 1 Objective:

Goal 2: Water Conservation.

Goal 2 Objective: Reduction in loss of treated water.

Goal 2 Objective: Increased instream flow in the Trinity River by reducing the amount of water to be pumped from the River.

Goal 2 Objective:

Goal 2 Objective:

Goal 3: Climate Adaptation & Energy Independence.

Goal 3 Objective: GHG emission reduction by conserving water.

Goal 3 Objective: Improve water/energy use efficiency.

Goal 3 Objective: Community resiliency to drought conditions and forest fires.

Additional Goals & Objectives (List)

Goal 5: Economic Vitality.

Goal 5 Objective: Enhance the economic vitality of the severely disadvantaged community of Lewiston by improving existing infrastructure with grant funding rather than requiring rate increases.

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

The Proposed Project will allow LCSD to safely and effectively supply water to its customers by improving failing infrastructure within the severely disadvantaged community of Lewiston via grant funding and therefore improving the economic vitality of the community. The new water distribution system will reduce water loss within the system. This will minimize the amount of water pulled from the Trinity River and treated at the LCSD Water Treatment Plant and prevent overdrafting of the groundwater source. The reduction in pumping and treatment should lead to GHG emission reduction and water/energy use efficiency. The new distribution system will be comprised of materials to ensure long-term water supply reliability, quality, and increased fire suppression, with a service life greater than 15 years, and NSF certified components to protect public health.

7. Describe the need for the project.

The existing Lewiston Park Subdivision distribution system is composed of asbestos cement pipe, which is 62 years old and appears to have been joined together with oakum. As such, it has met its useful service life and is in dire need of replacement. LCSD is currently experiencing approximately 16,000 GPD of unaccounted for water, or a 22% water loss, and has been unable to locate leaks in the system that are deteriorating the County-owned roadway. Leaks also lower available water pressure for consumption and fire fighting suppression in an area often threatened by wildfire.

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

The Trinity River is listed as an impaired water body. The Proposed Project will likely increase water in the Trinity River for downstream users.

9. Will this project mitigate an existing or potential Cease and Desist Order or other regulatory compliance enforcement action? ☐ yes ☒ no

If so, please describe?

N/A

10. Describe the population served by this project.

As a census designated place, the population of Lewiston was reportedly 1,320, according to the 2012-2016 American Community Survey. However, LCSD provides water and sewer services to a population of approximately 645 according to the number of household equivalents served by LCSD. The entire service area boundary, included as Attachment 4, serves an SDAC with an MHI of \$33,684, or 41% of the state's MHI of \$82,009. The Project will provide a direct water-related benefit to all of LCSD.

11. Does the project provide direct water-related benefits to a project area comprised of Disadvantaged Communities or Economically Distressed Communities?

- ☒ Entirely
- ☐ Partially
- ☐ No

List the Disadvantaged Community(s) (DAC)

Lewiston

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)

Lewiston

13. Does the project provide direct water-related benefits to a Tribe or Tribes?

- ☐ Entirely
- ☐ Partially
- ☒ No

List the Tribal Community(s)

N/A

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.

Lewiston is designated as an SDAC according to the DAC Mapping Tool provided by DWR included as Attachment 5. LCSD is continuously looking for ways to reduce costs for their rate payers. The ongoing leaks in the Lewiston Park Subdivision result in increased pumping and treatment costs. The leak at Third Avenue and Sutter Street is beginning to deteriorate the County-owned roadway in which LCSD will most likely be responsible for replacing. This cost would be shared between LCSD rate payers. LCSD will be replacing the wastewater collection system in the subdivision and then repaving the County-owned roadways. Replacing the failing water distribution system in conjunction with replacement of the wastewater collection system, prior to paving the roads, will eliminate repaving the roads twice and will reduce pumping and treatment costs. The SDAC is faced with threats of wildfires each summer, so minimizing leaks and increasing pressure will improve fire suppression capabilities.

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

If yes, please explain.

Replacing the failing water distribution system will result in the conservation of both water and energy by reducing unaccounted for water loss. Replacement of the distribution system is anticipated to result in a reduction of approximately 16,000 GPD that is pumped and treated from the Trinity River and groundwater sources. This will result in an energy savings of approximately \$3,650 a year and reduce GHG emissions by 900 metric tons of CO₂ over the Project's lifetime.

16. Describe how the project contributes to regional water self-reliance.

The failing water distribution system inhibits LCSD's ability to ensure safe and reliable drinking water; therefore, this project will provide LCSD the ability to be self-reliant and ensures compliance with NCRP Goal 2 Objective 4 and NCRP Goal 4 Objectives 8, 9, and 10. The Proposed Project will ensure that an economically SDAC is supported and will enhance the economic vitality of the SDAC by improving infrastructure to ensure water supply reliability and quality to protect public health while minimizing impacts to sensitive resources and protecting groundwater sources from over-drafting.

17. Describe how the project benefits salmonids, other endangered/threatened species and sensitive habitats.

There is potentially less water that will need to be pumped from the Trinity River resulting in more flow in the Trinity River which flows to the Klamath River. The Klamath River enters the ocean in an area of Special Biological Significance.

18. Describe local and/or political support for this project.

The State Water Resources Control Board (SWRCB) Division of Drinking Water (DDW) has written a letter in support of the Proposed Project, included in Attachment 6. The North Coast Regional Water Quality Control Board, and Trinity County Resource Conservation District have also indicated support of the Proposed Project, however a letter had not yet been received at the time of submission of this application.

19. List all collaborating partners and agencies and nature of collaboration.

US Department of Agriculture, Rural Development has indicated support for the Proposed Project and may be able to contribute some funding if partial funding can be obtained from other sources.

20. Is this project part or a phase of a larger project? ☐ yes ☒ no
Are there similar efforts being made by other groups? ☒ yes ☐ no

If so, please describe?

Funding for water infrastructure improvement projects is being applied for by other agencies; however, no known agencies are in the vicinity of the Proposed Project.

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.

LCSD completed an Initial Study-Negative Declaration (ND) on November 7, 2018, which described all project effects including those on the Trinity Watershed. A Notice of Intent to Adopt an ND was received by the State Clearinghouse and Trinity County Clerk on or around November 8, 2018 and published in the Trinity Journal the week of December 12, 2018. Letters were mailed to three different tribes, identified during the wastewater project, on December 6, 2018 requesting comments on this project.

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?

LCSD is in the process of leveraging funds from the US Department of Agriculture, Rural Development, who has indicated support for the project thus providing integrated financing. The Proposed Project also meets Statewide Priority Action #1, in that the Proposed Project will result in water and energy conservation; Statewide Priority Action #2, in that the Proposed Project will ensure LCSD can be self-reliant and provide safe drinking water and improved fire suppression to an SDAC; Statewide Priority Action #4, in that unaccounted for water loss will be reduced in the Proposed Project, thus being more prepared for the next drought that occurs by maximizing all available water sources; and, Statewide Priority Action #7, in that the Proposed Project will allow LCSD to provide safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes to its customers.

23. Project Information Notes:

Both the AB-52 and CEQA process were completed on January 7, 2019 with only two comments received. Both comments were addressed in the final ND that was adopted January 8, 2019 and is included as Attachment 10. Letters that were sent to the three different tribes were also included in the final ND and are included in Attachment 10.

D. PROJECT LOCATION

1. Describe the location of the project

Geographical Information

The Proposed Project is located in the community of Lewiston, Trinity County, California with a latitude of 40°41'56" and a longitude of 122°48'56" (NAD 83 UTM coordinates 10 0516252E, 4505377N).

Lewiston is located approximately 16 road miles southeast of Weaverville, California and approximately 35 road miles west of Redding, Shasta County, California.

2. Site Address (if relevant):

Lewiston Park Subdivision, located off Trinity Dam Blvd, includes Texas Ave, First Avenue, Second Avenue, Third Avenue, Donner Street, Sutter Street, Trinity Vista, and Fremont Street.

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.

This project will utilize existing easements as shown in Attachment 7 from Humboldt Financial Services Corporation.

4. Project Location Notes:

See Attachment 8 for the overall site plan of the Proposed Project.

E. PROJECT TASKS, BUDGET AND SCHEDULE

1. Projected Project Start Date: 4/1/20

Anticipated Project End Date: 12/31/20

2. Will CEQA be completed within 6 months of Final Award?

☒ Yes

State Clearinghouse Number: 2018112026

☐ 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	Y	11/7/18
Notice & invitation to consult sent to Tribes per AB52	Y	12/6/18
Notice of Preparation	Y	11/7/18
Draft EIR/MND/ND	Y	11/7/18
Public Review	Y	11/12/18
Final EIR/MND/ND	Y	1/8/19
Adoption of Final EIR/MND/ND	Y	1/8/19
Notice of Determination	Y	1/8/19
N/A - not a CEQA Project		

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

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
Encroachment Permit	Trinity County	6/1/20
SWPPP	North Coast Regional WQCB	6/1/20

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

To date, no actions have been taken to acquire the necessary permits as all are required as part of the construction phase and will be acquired by the Contractor. It is not anticipated that there will be any delay in permit acquisition.

6. Describe the financial need for the project.

Lewiston is designated as an SDAC according to the DAC Mapping Tool provided by DWR, included as Attachment 5. The Proposed Project is estimated to cost approximately \$2.38 million if completed in conjunction with replacement of the wastewater collection system. Completing both projects at the same time will save LCSD approximately \$600,000. If grant funding is not obtained, a 100% loan at 2.5% interest over 40 years would result in a \$41.19/month increase in base rate per customer.

7. Is the project budget scalable? ☒ yes ☐ no

Describe how a scaled budget would impact the overall project.

A scaled budget would only allow for select portions of the water distribution system to be replaced. While this is not ideal, and will cost more in the long run, in the event the project needs to be scaled, LCSD can focus on specific water mains that have known leaks and need to be replaced immediately.

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

Derived budget costs for the Proposed Project are based on planning, design, and construction costs from similar prevailing wage rate public works projects that have been recently bid and constructed in the north state incremented up by the Engineering News Record Construction Cost Index to reflect present industry costs. Costs included are for open-cut installation of a new water main, services, and appurtenances based on average market value and equal those required by prevailing wage.

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

There is no alternative to replacing the failing water distribution system. Alternatives considered in the Engineering Project Report, included in Attachment 9, included consolidation with Weaverville CSD and a no project alternative. Neither alternative would fix the existing problems in the failing water distribution system or achieve the same types and amounts of physical benefits and was therefore not analyzed for costs.

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

Even though the Project will serve an SDAC, the US Department of Agriculture, Rural Development has indicated they can provide non-state matching funds of approximately \$1.2 million. However, the amount to be funded by USDA is dependent upon the Proposed Project being selected for funding in part by IRWM.

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

None

12. **Cost Share Waiver Requested (DAC or EDA)?** ☐ yes ☒ no

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.

N/A

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:**

None.

F. PROJECT BENEFITS & JUSTIFICATION

1. 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.

Increased flows in the Trinity River, as a result of water conservation by LCSD, will increase the availability of water to other regions within the NCRP along the Trinity and Klamath Rivers.

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 existing water distribution system within the Lewiston Park Subdivision has met its useful service life. This is evident by the many leaks experienced on a monthly basis. Some leaks cannot be located and continue to contribute runoff to the stormdrains year round. A new distribution system in the Lewiston Park Subdivision would reduce the number of leaks in the system, which will reduce electrical (pumping) and treatment costs of the water supplied to LCSD customers. The new distribution system will allow LCSD to supply safe and reliable drinking water and increased fire suppression to its customers. For more information, see the attached Engineering Project Report and Overall Site Plan of Proposed Improvements included as Attachments 8 and 9, respectively.

3. Does the project address a contaminant listed in AB 1249 (nitrate, arsenic, perchlorate, or hexavalent chromium)? ☐ yes ☒ no

If yes, provide a description of how the project helps address the contamination.

N/A

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

If Yes, please describe.

The Project replaces old and leaking asbestos cement pipe and all service connections within the area with new piping that meets requirements of the California Water Code. The new distribution system will provide a more reliable method of delivering safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes to LCSD customers. Water loss and leaks will be minimized, which will reduce the possibility of contamination due to pressure losses.

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, flood control, land use, and sanitation? ☐ yes ☒ no

If Yes, please describe.

N/A

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				
Increased instream flow for all purposes in Trinity River	5.84	MG/Year	See Item 7 below.	
Increased Water Supply Reliability	211	Connections	50,640.00	\$240/connection
Avoided Electric Costs	32,350	kW/year	3,560.00	\$0.11/kW
Avoided Costs Associated with Emergency Repairs	24	Approx. # leaks/year	480.00	\$20/hr/leak
Water Quality				
Avoided Water Treatment Costs	5.84	MG/year	800.00	\$/gallon
Bacteria/Contamination Reduction	24	approx. # leaks/year	See Item 7 below.	
Other Ecosystem Service Benefits				
Other Benefits				
Enhanced Fire Fighting Capabilities	91	Acres protected/year	See Item 7 below.	
Social Health and Safety	645	People	See Item 7 below.	
Carbon Emissions Reductions from Reduced Electricity Use	32,350	kWh/year	8088	0.25 KgCO ₂ e/kWh

7. Project Justification & Technical Basis Notes:

Leaks in the distribution system reduce pressure and flow available for fire suppression as well as require more water to be pulled from the Trinity River. Replacing the distribution system should increase pressure and flows available for fire suppression, which will enhance fire fighting capabilities as well as reduce the

amount of water pulled from the Trinity River, increasing instream river flows for downstream users. The project also includes installing a new fire hydrant to expand the acres protected from 84 to 91.

A leak in the distribution system not only indicates water is leaving the distribution system but also that bacterial contaminants can be entering the distribution system due to reduced pressures. Reducing bacterial contaminants/contamination and ensuring the social health and safety of the public is the number one priority and cannot be monetized.

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

Project Name: LCSD Water Distribution System Replacement Project
 Organization Name: Lewiston 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 Administration									
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 required. Provide funding coordination throughout all aspects of the project.	Invoices, audited financial statements and other deliverables as required	0%	\$35,000.00	\$0.00	\$35,000.00	4/1/20	12/31/20
2	Monitoring Plan	Develop Monitoring Plan to include goals and measurable objectives	Final Monitoring Plan	0%	\$5,000.00	\$0.00	\$5,000.00	5/1/20	6/1/20
3	Prevailing Wage Monitoring	Execute service agreement with Prevailing Wage Monitoring company	Submission of Prevailing Wage Monitoring	0%	\$0.00	\$15,000.00	\$15,000.00	6/1/20	12/31/20
4	Reporting	Develop monthly reports describing work completed, challenges, and strategies for reaching remaining project objectives. Develop Final Report	Quarterly and Final Reports	0%	\$20,000.00	\$0.00	\$20,000.00	4/1/20	12/31/20
B Category (b): Land Purchase/Easement									
1	N/A			0%	\$0.00	\$0.00	\$0.00	N/A	N/A
C Category (c): Planning/Design/Engineering/Environmental Documentation									
1	Final Design /Plans & Specifications	Develop a set of final design plans and specifications ready to put out to bid. The plans and specifications will conform to all necessary requirements stipulated by the District and regulatory agencies to ensure a high quality product.	Final Design /Plans & Specifications	0%	\$0.00	\$94,000.00	\$94,000.00	4/1/20	5/15/20
2	Project Engineering Report	Complete an Project Engineering Report	Final Engineering Project Report	4%	\$0.00	\$35,000.00	\$35,000.00	9/1/18	12/31/19
3	Environmental Documentation: CEQA *	Notify tribes about the project and solicit input per AB-52; Conduct preliminary project review; Prepare Initial Study and all relevant CEQA documents as per CEQA Guidelines. File Notice of Determination	Filed Notice of Determination & Adopted Negative Declaration	100%	\$0.00	\$9,100.00	\$9,100.00	9/1/18	1/8/19
4	Permit Development *: Trinity County Encroachment Permit	Encroachment Permit: a standard encroachment permit for improvements within a street right-of-way shall be secured to accommodate all construction activities for the project.	Final Trinity County Encroachment Permit	0%	\$10,000.00	\$0.00	\$10,000.00	1/1/20	6/30/20
5	Permit Development *: Storm Water Pollution Prevention Plan	Contractor to complete a Storm Water Pollution Prevention Plan and Owner to submit to North Coast Regional Water Quality Control Board	Final Storm Water Permit	0%	\$10,000.00	\$0.00	\$10,000.00	6/1/20	7/1/30
D Category (d): Construction/Implementation									
1	Construction/Implementation Contracting	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%	\$20,000.00	\$0.00	\$20,000.00	4/15/20	5/31/20
2	Mobilization and Site Preparation	Prepare Site and mobilize project:1. Initiate project site preparation; 2. Order project equipment and supplies; 3. Assure project permits are in place; 4. Conduct pre-project site photo-monitoring	Summary of site preparation activities in monthly reports; pre-project site photos	0%	\$0.00	\$200,000.00	\$200,000.00	6/15/20	9/1/20
3	Project Construction/Implementation: Water Main Installation	Installation of approximately 10,275 of water main	Summary of construction activities in monthly progress report; Photo documentation; Construction completed	0%	\$661,575.00	\$346,750.00	\$1,008,325.00	7/1/20	9/30/20
4	Project Construction/Implementation: Reconnection of Service Connections	Reconnection of approximately 151 service connections and relocation of approximately 19 service connections	Summary of construction activities in monthly progress report; Photo documentation; Construction completed	0%	\$274,320.00	\$143,780.00	\$418,100.00	7/1/20	9/30/20
5	Project Construction/Implementation: Connection of Fire Hydrants	Reconnection of approximately 9 Fire Hydrants, installation of 1 fire hydrant.	Summary of construction activities in monthly progress report; Photo documentation; Construction completed	0%	\$54,590.00	\$28,610.00	\$83,200.00	7/1/20	9/30/20
6	Project Construction/Implementation: 10% Contingency	10% Construction Contingency	Summary of construction activities in monthly progress report; Photo documentation; Construction completed	0%	\$101,040.00	\$52,960.00	\$154,000.00	7/1/20	12/31/20
7	Project Signage			0%	\$1,000.00	\$0.00	\$1,000.00	4/1/20	5/1/20
8	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%	\$0.00	\$198,000.00	\$198,000.00	6/1/20	12/31/20

Project Name: LCSD Water Distribution System Replacement Project
 Organization Name: Lewiston 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
9	Project Performance Monitoring	The performance of the project will be monitored in accordance to the Monitoring Plan using the following measurement tools and methods: Comparing production data versus consumption data to verify reduction in unaccounted for water.	Production vs Consumption Report	0%	\$0.00	\$5,000.00	\$5,000.00	1/1/21	12/31/23
10	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%	\$0.00	\$60,000.00	\$60,000.00	4/1/20	12/31/20
Total North Coast Resource Partnership 2018/19 IRWM Grant Request					\$1,192,525.00	\$1,188,200.00	\$2,380,725.00		
Is Requested Budget scalable by 25%? If yes, indicate scaled totals; if no delete budget amount provided.					\$894,393.75	\$891,150.00	\$1,785,543.75		
Is Requested Budget scalable by 50%? If yes, indicate scaled totals; if no delete budget amount provided.					\$596,262.50	\$594,100.00	\$1,190,362.50		

* CEQA and permitting costs for projects are not an eligible cost for grant reimbursement, unless a project is providing a water-related benefit entirely to DACs, EDAs, or Tribes, or projects implemented by Tribes.

California Department of Water Resources
Integrated Regional Water Management Grant Programs

**CERTIFICATION FOR GROUNDWATER MANAGEMENT PLAN COMPLIANCE
FOR THE
PROPOSITION 84, IMPLEMENTATION
GRANT PROGRAM**

Grant Program: Proposition 84, Implementation
 IRWM Region: North Coast
 Agency name: Lewiston Community Services District
 Project Title (as shown on application form): LCSD Water Distribution System Replacement Project

Please check one of the boxes below and sign and date this form.

- ☐ As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that the agency has prepared and implemented a GWMP in compliance with CWC §10753.7.
- ☒ As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that the agency participates or consents to be subjected to an existing GWMP, basin-wide management plan, or other IRWM program or plan that meets the requirements of CWC §10753.7(a).
- ☐ As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California that the agency conforms to the requirements of an adjudication of water rights in the subject groundwater basin.
- ☐ As the authorized representative for the agency, I certify under penalty of perjury under the laws of the State of California, that my project is located in a low or very low priority groundwater basin (as defined by CASGEM) and the agency consents to be subjected to a GWMP that will meet the requirements of CWC §10753.7 and be completed within 1-year of the grant application submittal date.

I understand that the Department of Water Resources will rely on this signed certification in order to approve funding and that false and/or inaccurate representations in this Certification may result in loss of all funds awarded to the applicant for its project. Additionally, for the aforementioned reasons, the Department of Water Resources may withhold disbursement of project funds, and/or pursue any other applicable legal remedy.

Mel Deardorff 
 Name of Authorized Representative Signature
 (Please print)

LCSD Board President 2-25-2019
 Title Date

[SUMMARY OF FINAL SUBMITTED VERSION]**REPORT OF LICENSEE FOR 2017**

Primary Owner: Lewiston Community Service District
 Primary Contact: Mel Deardorff

Date Submitted: 02/12/2018

Application Number: A017669
 Permit Number: 011106

Source(s) of Water	POD Parcel Number	County
TRINITY RIVER		Trinity

MAX Direct Diversion Rate: 0.75 CFS
 MAX Collection to Storage: 0 AC-FT
 Face Value: 543 AC-FT

Permitted Use(s)	Acres	Direct Diversion Season	Storage Season
Domestic		01/01 to 12/31	
Fire Protection		01/01 to 12/31	

1. Project Abandoned

The project has been abandoned and I request revocation of my water right license	No
---	----

2. Compliance with License Terms and Conditions

I have currently reviewed my water right license and I am complying with all terms and conditions	Yes
---	-----

Description of noncompliance with terms and conditions	
--	--

3. Changes to the Project

Intake location has been changed	
Description of intake location changes	
Type of use has changed	
Description of type of use changes	
Place of use has changed	
Description of place of use changes	
Other changes	
Description of other changes	

4. Purpose of Use

Domestic	150
Fire Protection	330,000 gal Reservoir

Special Use Categories

C1. Are you using any water diverted under this right for the cultivation of cannabis?	No
--	----

5. Maximum Rate of Diversion for each Month

Month	Maximum Rate of Diversion (GPM)
January	173
February	86
March	88
April	88

May	94
June	163
July	172
August	172
September	172
October	172
November	172
December	172

6. Amount of Water Diverted and Used

Month	Amount directly diverted (Acre-Feet)	Amount diverted or collected to storage (Acre-Feet)	Amount used (Acre-Feet)
January	0	1.31	1.46
February	0	1.16	1.21
March	0	1.44	1.34
April	0	0.87	1.16
May	0	1.43	0.86
June	0	2.43	2.48
July	0	3.55	3.48
August	0	3.31	3.29
September	0	2.4	2.45
October	0	1.58	1.7
November	0	1.4	1.44
December	0	1.67	1.6
Total	0	22.55	22.47
Type of Diversion	Diversion to Storage Only		
Comments			

Water Transfers

6d. Water transferred	No
6e. Quantity transferred (Acre-Feet)	
6f. Dates which transfer occurred	/ to /
6g. Transfer approved by	

Water Supply Contracts

6h. Water supply contract	No
6i. Contract with	
6j. Other provider	
6k. Contract number	
6l. Source from which contract water was diverted	
6m. Point of diversion same as identified water right	
6n. Amount (Acre-Feet) authorized to divert under this contract	
6o. Amount (Acre-Feet) authorized to be diverted in 2017	
6p. Amount (Acre-Feet) projected for 2018	
6q. Exchange or settlement of prior rights	
6r. All monthly reported diversion claimed under the prior rights	
6s. Amount (Acre-Feet) of reported diversion solely under contract	

7. Water Diversion Measurement

a. Required to measure as of the date this report is submitted	No
--	----

b. Is diversion measured?	Yes
c. An alternative compliance plan was submitted to the division of water rights on	
d. A request for additional time was submitted to the division of water rights on	

Measurement ID number	M005634
This Device/Method was used to measure water during the current reporting period	Yes
M1. Briefly describe the measurement device or method	Mag Meter
M2. Nickname	Raw Water
M3. Type of device / method	Flow meter (electromagnetic)
M4. Device make	Krohne
M5. Serial number	
M6. Model number	VB144
M7. Approximate date of installation	07/01/2015
M8. Additional info	
M9. Approximate date the measuring device was last calibrated or the measurement method was updated	
M10. Estimated accuracy of measurement	0.5%
M11. Description of calibration method	
M12. Describe the maintenance schedule for the device/method	
Information for the person who last calibrated the device or designed the measurement method	
M13. Name	
M14. Phone number	
M15. Email	
M16. Qualifications of the individual	
M17. License number and type for the qualified individual above and/or any other relevant explanation	
M18. Type of data recorder device / method	Data logger (digital)
M19. Data recorder device make	
M20. Data recorder serial number	
M21. Data recorder model number	
M22. Data recorder units of measurement	
M23. Frequency of data recording	
M24. Additional data recorder info	
M25. I am required to report my diversion or storage data by telemetry as of the date this report is submitted	No
M26. I report my diversion or storage data by telemetry to the following website	
M27. I have attached additional information on the method I used to calculate the volume of water	
M28. Describe any documents related to this measurement device or method that are attached to this water use report	

8. Storage					
Reservoir name	Spilled this year	Feet below spillway at maximum storage	Completely emptied	Feet below spillway at minimum storage	Method used to measure water level

Conservation of Water	
9. Are you now employing water conservation efforts?	Yes
Description of water conservation efforts	Tiered Rates
10. Amount of water conserved	

Water Quality and Wastewater Reclamation	
11. During the period covered by this Report, did you use reclaimed water from a wastewater treatment facility, water from a desalination facility, or water polluted by waste to a degree which unreasonably affects the water for other beneficial uses?	No
12. Amount of reclaimed, desalinated, or polluted water used	

Conjunctive Use of Groundwater and Surface Water	
13. During the period covered by this Report, were you using groundwater in lieu of available surface water authorized under your license?	No
14. Amounts of groundwater used	

Additional Remarks

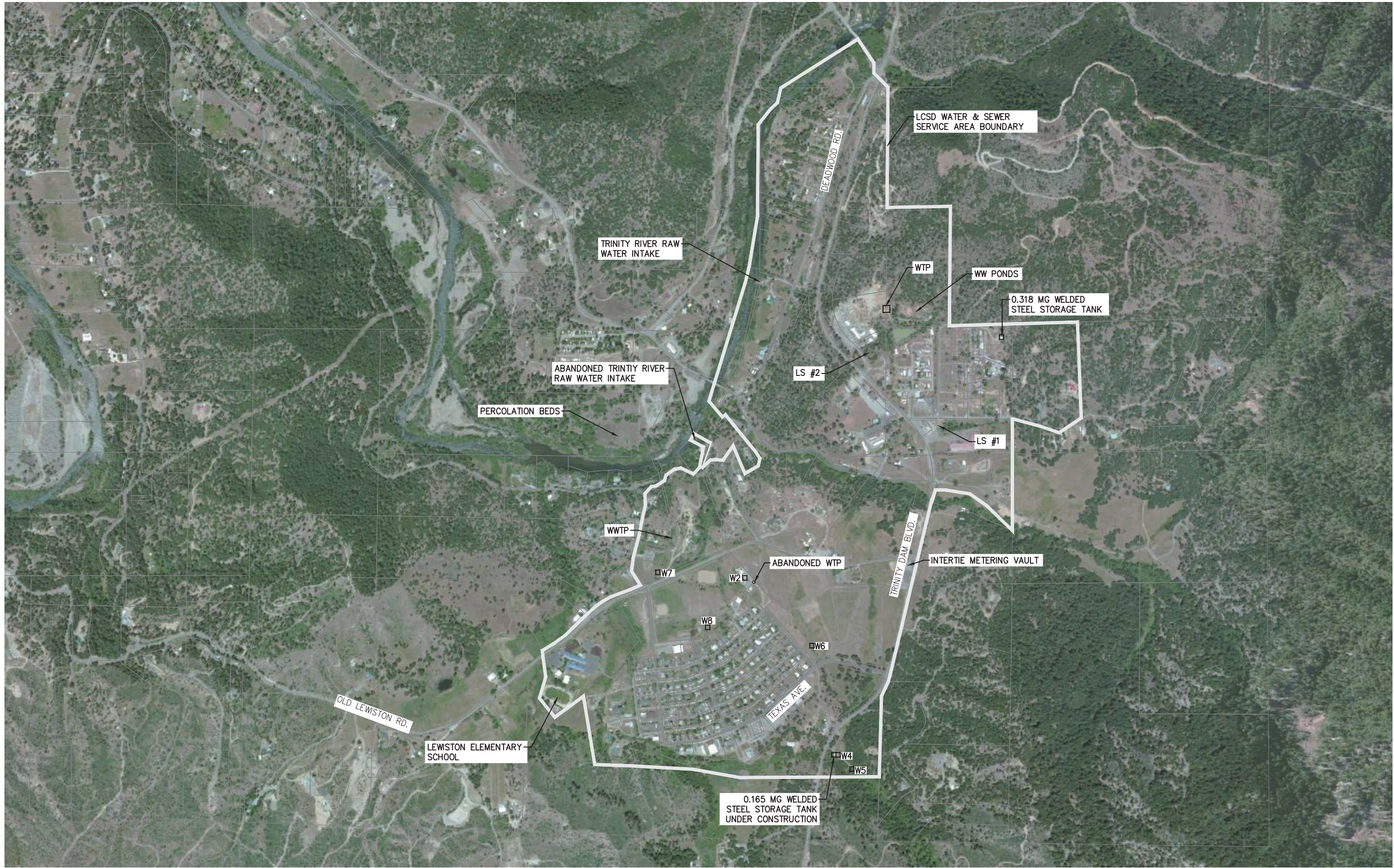
Attachments		
File Name	Description	Size
No Attachments		

Contact Information of the Person Submitting the Form	
First Name	Wes
Last Name	Scribner
Relation to Water Right	Other: Contract Treatment Operator

Information on Certification and Signatory	
Name of Person Signing and Certifying the Report	Wes Scribner
Date of Signature	02/12/2018

[illegible]

1"=500'



BAR IS ONE INCH ON ORIGINAL DRAWING
0' 1'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS		
NO	DATE	

PACE
ENGINEERING
REDDING, CALIFORNIA

DES	TW	CKD	TW	JOB NO.
DRN	NH	DATE	09/21/18	2399.08

SIGNED

LEWISTON COMMUNITY SERVICES DISTRICT
WATER & SEWER SERVICE AREA BOUNDARY

FIGURE
1



3/2/2019, 1:50:23 PM

1:288,895

California Counties

Disadvantaged Communities - Places 2016

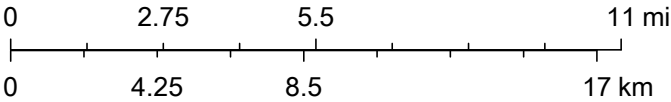
- Data Not Available
- Severely Disadvantaged Communities (MHI < \$38,270)
- Disadvantaged Communities (\$38,270 >MHI< \$51,026)

Disadvantaged Communities - Tract 2016

- Data Not Available
- Severely Disadvantaged Communities (MHI < \$38,270)
- Disadvantaged Communities (\$38,270 >MHI< \$51,026)

Disadvantaged Communities - Block Group 2016

- Data Not Available
- Severely Disadvantaged Communities (MHI < \$38,270)
- Disadvantaged Communities (\$38,270 >MHI< \$51,026)



US Census Bureau, U.S. Bureau of Reclamation, California Department of Conservation, California Department of Fish and Game, California Department of Forestry and Fire Protection, National Oceanic and Atmospheric Administration

State Water Resources Control Board
Division of Drinking Water

February 27, 2019

Mel Deardorff
LCSD Board President
130 Texas Avenue
P.O. Box 164
Lewiston, CA 96052

Subject: Lewiston C.S.D. Drinking Water Distribution System Replacement Project

This office has been informed that the Lewiston Community Services District is seeking financial assistance to replace approximately 10,275 feet of water main and appurtenances in its distribution system within the Lewiston Park Subdivision.

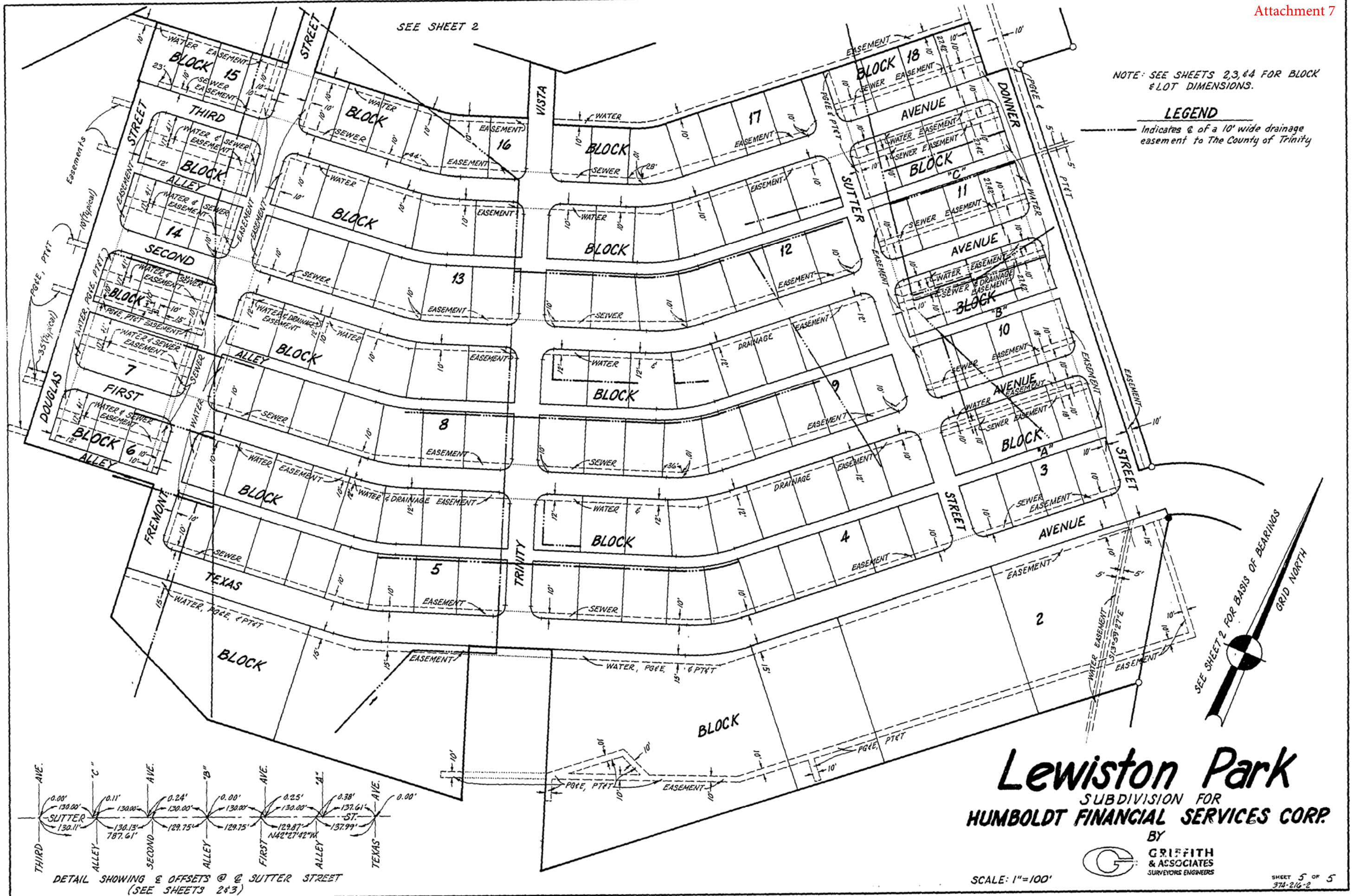
We strongly support this endeavor and concur with the necessity of the distribution system/pipeline replacement project.

The proposed improvements will increase the resiliency of the water system and help to ensure that wholesome and potable drinking water is delivered reliably to the customers of Lewiston CSD.

If you have any questions, please contact Ian McFadden at (530) 224-4868, or me at (530) 224-4875.



Barry S. Sutter, P. E., Klamath District Engineer
Division of Drinking Water
STATE WATER RESOURCES CONTROL BOARD





50% DRAFT

BAR IS ONE INCH ON
ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES
ACCORDINGLY.

REVISIONS		
NO	DATE	DESCRIPTION

PACE
ENGINEERING
REDDING, CALIFORNIA

DES NHCKD TW

DRN NHDATE 03/04/19

JOB NO.

2399.08.200

SIGNED
PRELIMINARY
NOT
FOR
CONSTRUCTION

LEWISTON COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM REPLACEMENT PROJECT
OVERALL SITE PLAN OF PROPOSED IMPROVEMENTS

ATTACHMENT
8
PG 1 OF 1

ENGINEERING PROJECT REPORT

FOR

LEWISTON COMMUNITY SERVICES DISTRICT

WATER DISTRIBUTION REPLACEMENT PROJECT



NOVEMBER 2018
JOB No. 2399.08.200

Prepared By:



Pages from the Engineering Project Report.
For a complete copy, please contact Lewiston
Community Services District.

tank is located on fenced LCSD property accessed by a locked gate from an easement off Dennison Drive.

The original LPMWC 150,000-gallon redwood storage tank was demolished in August 2018. The redwood storage tank was approximately 60 years old, and many of the redwood staves that made up the tank were severely deteriorated. The Trinity Dam Tank Replacement Project will construct a 165,000-gallon welded steel tank where the original redwood storage tank was located. The storage tank, Well 4, and Well 5 are located on a fenced easement accessed by a locked gate from Trinity Dam Blvd.

3. Problem Description

3.1 Aging Asbestos Cement Pipe Distribution System

The distribution system within Lewiston Park (formerly LPMWC) was installed circa 1957 by the United States Department of the Interior, Bureau of Reclamation (USBR), for workers building the Lewiston and Trinity Dams. From the 1940s to the 1970s, AC pipe was the pipe of choice due to its strength, ability to resist corrosion, and light weight compared to steel and cast iron. According to an article published by the Public Works Magazine in 2009, AC pipe has a life expectancy of 40-60 years. As such, the AC pipe installed within the Lewiston Park subdivision has reached the end of its useful service life. Furthermore, when the service connections were installed, the corporation stops for the individual service connections were threaded directly into the existing AC pipe. Many of the leaks the District experiences occur at these connections.

According to operators, the number of leaks they respond to varies month to month. Recently exposed leaking joints in the AC pipe indicate the joints were sealed with oakum. Oakum is a fiber that is impregnated with a tar-like substance, placed into the joint gap between the two pipes, and then sealed with lead. The LCSD has also found one lead service connection on Texas Avenue and presumes there are more. Lead is a toxic metal that can be harmful to human health even at low exposure levels. As indicated by the Environmental Protection Agency (EPA), young children, infants, and fetuses are especially vulnerable to lead as the behavioral and physical effects of lead occur at lower exposure levels in children than adults. As such, the EPA has set the maximum contaminant level goal (MCLG) for lead at zero to protect human health.

Analyzing historical production and consumption records from September 2016 through March 2018, the District has a total of 6.15 million gallons (MG) unaccounted for within the Lewiston Park subdivision. However, during this time, the District was aware of substantial leaking at the redwood tank that was estimated to be 1.5 GPM, or 2,160 GPD. This leaves approximately 8,525 GPD that is being lost through leaks in the distribution system. Furthermore, runoff is witnessed year-round near the fire hydrant located at Third Ave. and Sutter St. This runoff has a total chlorine residual of 0.18 mg/L and free chlorine residual of 0.17 mg/L indicating this water is from the distribution system and not groundwater runoff, see photos located in Appendix B. Operators have attempted to locate the source of the leak but have been unsuccessful.

In spring 2018, prior to consolidation, LPMWC had to complete emergency repairs on a leak in the 4-inch AC water main north of Third Ave. that was approximately 15 feet deep. Due to the depth of the water main and uncertainty of exactly where the leak was occurring from, it was

decided to replace that section of piping. Approximately 240 feet of PVC water main was installed that ran through an easement in customers' backyards. Due to the complexity of the project, the emergency repairs ended up costing LPMWC \$44,905. See Appendix B for recent pictures of the condition of the distribution system and 1957 as-built drawings.

4. Alternatives Considered

4.1 Alternatives Description

The District needs to replace its old, leaky distribution system. The alternatives considered include:

- Alternative 1 – Replacement of Distribution System
- Alternative 2 – Consolidation
- Alternative 3 – No Project

4.2 Alternative 1 – Replacement of Distribution System

Approximately 8,425 feet of the distribution system within Lewiston Park needs to be replaced. The existing 6-inch AC pipe along Texas Ave., Fremont St., and down Donner St. needs to be replaced with 8-inch PVC water main to meet both MDD and fire flow. The existing 4-inch AC pipe along First Ave., Second Ave., and Third Ave. needs to be replaced with 6-inch PVC water main to also meet MDD and fire flow. New 6-inch PVC water main needs to be installed down both Trinity Vista and Sutter St. to allow for a looped system with no dead-ends in the system. New 4-inch PVC water main needs to be installed along Sutter St., from Third Ave. north to the 4-inch PVC water main replaced in spring 2018, to create a looped system for that section of piping.

Approximately 167 service connections will then need to be connected to the new distribution system, with 16 of those services requiring complete relocation. The fire hydrants that were replaced in this area as part of the 2017 Intertie Project were replaced using 6-inch gate valves and then reduced down to connect to the existing 4-inch AC pipe. These fire hydrants can be easily reconnected to the distribution system by removing the reducer. Given the increase in wildland fires in northern California, and the recent evacuation of Lewiston during the Carr Fire, the location of fire hydrants and coverage of the Lewiston Park subdivision was analyzed. It was determined the District could benefit from installing an additional fire hydrant at the corner of Texas Ave. and Donner St.; therefore, as part of this alternative, it is recommended a fire hydrant be installed.

Any environmental impacts as a result of this alternative are expected to be less than significant. The replacement of the water main includes open-trench cut within the existing road. The majority of the service connections are located at the edge of pavement. The 16 service connections to be relocated require movement of the service line from the back of the house to the front of the house in previously disturbed soil. An Initial Study completed by LCSD indicates the project will be covered under a Negative Declaration.

Furthermore, the District was recently awarded a \$17.2 million grant for full replacement of its wastewater collection system and wastewater treatment plant, as well as rehabilitation of its wastewater ponds and percolation beds. The collection system is anticipated to be replaced

July 2019. If the District can replace the distribution system within Lewiston Park at the same time they replace the collection system, the District will see approximately a 25% savings in construction costs and have less of an environmental impact. Assuming the distribution system will be replaced at the same time as the collection system, the estimated project cost to replace the distribution system is \$2,380,000 as itemized in Appendix D.

4.3 Alternative 2 – Consolidation

LCSD subsumed with LPMWC on July 1, 2018. The next closest water purveyor in the area is Weaverville Community Services District (CSD). Weaverville CSD is located approximately 17 highway miles from LCSD. Consolidating with Weaverville CSD would not fix the old, leaking distribution system currently in place. The California Environmental Quality Act (CEQA) Guidelines §15126.6(c) state that factors that may be used to eliminate alternatives from detailed consideration include 1) failure to meet most of the basic project objectives, 2) infeasibility, or 3) inability to avoid significant environmental impacts. As such, this alternative is both infeasible and does not meet most of the basic project objectives. Therefore, this alternative is not viable.

4.4 Alternative 3 – No Project

The District is currently losing approximately 8,500 GPD through leaks in the distribution system. Operators are spending time and resources to fix the leaks they can. More and more leaks will continue to appear as the AC pipe continues to age beyond its useful service life. Recently exposed joints in the AC pipe also appear to be sealed with oakum. The oakum is typically sealed with lead. A lead service line has also been found along Texas Avenue. Lead exposure can cause severe negative health effects. While drinking water is not typically a primary source of lead exposure, a little issue can quickly become a huge issue if not handled properly. CEQA guidelines §15126.6(c) state that factors that may be used to eliminate alternatives from detailed consideration include 1) failure to meet most of the basic project objectives, 2) infeasibility, or 3) inability to avoid significant environmental impacts. For the reasons mentioned above, this alternative is considered not feasible and is therefore not a viable alternative.

4.5 Alternatives Analysis

Alternatives were further analyzed and ranked using the decision matrix shown in Table 3. This matrix utilized eight evaluation criteria. Ranking of evaluation criteria with weighting factors (most favorable = 10 and least favorable = 1) provides a relative scale to initially screen out infeasible projects. The criteria and weighting factors are subject to interpretation and discussion by those familiar with public works projects including regulators, responsible public agencies, engineers, funding agencies, District staff, or ultimately, the LCSD Board. Provided below is a description of each criteria used in the Decision Matrix:

Project Capital Costs: In order to accurately portray the financial impacts to the District, capital costs were determined for replacement of the distribution system and are discussed in Section 4.2. While construction costs for consolidating with Weaverville CSD were not analyzed, it is assumed, since consolidation does not create a fix to the problem, this would be the most expensive alternative. In the decision matrix, alternatives with the lowest cost are ranked highest. A weight factor of 15 was assigned to Project Capital Costs. Total project costs are based on August 2018 dollars (ENRCCI = 11,124).

Operation and Maintenance (O&M) Costs: In order to accurately portray the financial impacts to the District, the ongoing O&M costs for each alternative were considered. When analyzing the O&M costs of the No Project alternative, the cost to keep repairing the leaking AC water main was included. A new distribution system, if installed correctly, should decrease O&M costs and was ranked accordingly. In the Decision Matrix, alternatives with the lowest expected O&M cost are ranked highest. A weight factor of 10 was assigned to O&M Costs.

Land and Easement Requirements: The time required to acquire land and/or easements can have a significant impact on the project schedule. In order to accurately portray these impacts to the District, the land and easement requirements for each alternative were considered. In the Decision Matrix, alternatives with the smallest land and/or easement requirements ranked highest. A significant amount of land acquisition/easements would be required to consolidate LCSD with Weaverville CSD; therefore, this alternative received the lowest score. Replacement of the distribution system would take place within District owned right-of-way with no additional land or easements required. A weight factor of 5 was assigned to Land and Easement Requirements.

Simplicity of Operation: Each alternative has different operational requirements. In order to minimize the operational complexity, all alternatives were assigned scores to reflect their various levels of expected complexity. As discussed earlier, Consolidation does not pose a fix to the problem and would only add to the operational complexity. Water main leaks can create a wide variety of operational problems including possibly leaving customers without water; therefore, the No Project Alternative was ranked the same as the Consolidation Alternative. A weight factor of 15 was assigned to Simplicity of Operation.

Environmental Impact: The impact a project will have on the environment is always a major concern. The smaller the project and/or disturbed area of a project, generally, the smaller the impact on the environment. As such, those alternatives expected to disturb a smaller area and have a smaller impact on the environment were ranked the highest. If the distribution system is replaced at the same time as the collection system, the same mitigation measures as outlined in the Lewiston Community Services District Wastewater Collection, Treatment, and Disposal Project Biological Resources Assessment (LCSD WW Biological Report) and the Lewiston Community Services District Wastewater Collection, Treatment, and Disposal Project Cultural Resources Inventory and Evaluation Report (LCSD WW Cultural Report) would be used. While the No Project Alternative would not have an impact on the environment, every time the District needs to repair a leak, the primary focus is to repair the leak with environmental impacts as the secondary focus. A weight factor of 20 was assigned to Environmental Impact.

Likelihood of Implementation: As indicated above, some of the alternatives are not practical or viable. As such, this alternative evaluation criteria is intended to rank the alternatives accordingly. As shown in Table 3, replacing the distribution system is the only alternative likely to be implemented. A weight factor of 15 was assigned to Likelihood of Implementation.

Future Serviceability/Reliability: Each alternative has differing degrees of serviceability and reliability in the future. If the District were to do nothing, the 4-inch AC main will continue to deteriorate and more and more leaks will occur. For this reason, it was ranked the lowest. Consolidation may be useful in supplying additional water to the District; however, consolidation

will not replace the existing failing distribution system. As such, it was also ranked the lowest. A new distribution system is the most reliable way the District can supply its customers with water. A weight factor of 10 was assigned to Future Serviceability/Reliability.

Security and Safety to Workers/Public: Security and safety to workers/public is always a concern for the District. Replacing the distribution system is safer to operators than having to dig a trench to repair a leak. Some of the existing AC water mains could be as deep as 15 feet. Utilities that are difficult to access and are more isolated pose even greater safety concerns and were therefore ranked accordingly. A weight factor of 10 was assigned to Security and Safety to Workers/Public.

5. Recommended Project

5.1 Selected Project

Based on the criteria discussed above and summarized in Table 3, Alternative 1, Replacement of the Distribution System, is the most suitable alternative to help the District replace its old, leaking water distribution system and protect human health.

Major components of the project include:

- Installation of 10,275 feet of water main and appurtenances as follows:
 - 1,650 feet of 6-inch water main along First Street
 - 1,475 feet of 6-inch water main along Second Street
 - 1,300 feet of 6-inch water main along Third Street
 - 1,825 feet of 8-inch water main along Texas Avenue
 - 975 feet of 8-inch water main along Fremont Street
 - 1,200 feet of 8-inch water main along Donner Street
 - 825 feet of 6-inch water main along Trinity Vista
 - 825 feet of 6-inch water main along Sutter Street
 - 200 feet of 4-inch water main along Sutter Street
- Reconnect 151 service connections
- Relocate 16 service connections
- Reconnect 9 fire hydrants
- Install new fire hydrant at Texas Avenue and Donner Street

5.2 Potential Construction Problems

The standard of care for all professional engineering and related services performed or furnished by the Engineer under this project will be equal to the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality.



BAR IS ONE INCH ON ORIGINAL DRAWING

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REVISIONS		
NO	DATE	DESCRIPTION

PACE
ENGINEERING
REDDING, CALIFORNIA

DES

CKD

DRN

NH

DATE

09/19/18

JOB NO.

2399.04

SIGNED

LEWISTON COMMUNITY SERVICES DISTRICT

WATER SYSTEM SCHEMATIC

APPENDIX

A

APPENDIX B

**Lewiston Park Subdivision As-Built Drawings
and Pictures of Existing Distribution System**



Photo 1 - Old service line and corp stop pulled from existing 4-inch AC pipe during the Third Ave. Main Replacement Project.



Photo 2 - Existing 4-inch AC pipe, approximately 5 feet deep, where old service line and corp stop in Photo 1 was threaded into and pulled out of AC pipe during replacement of water main.

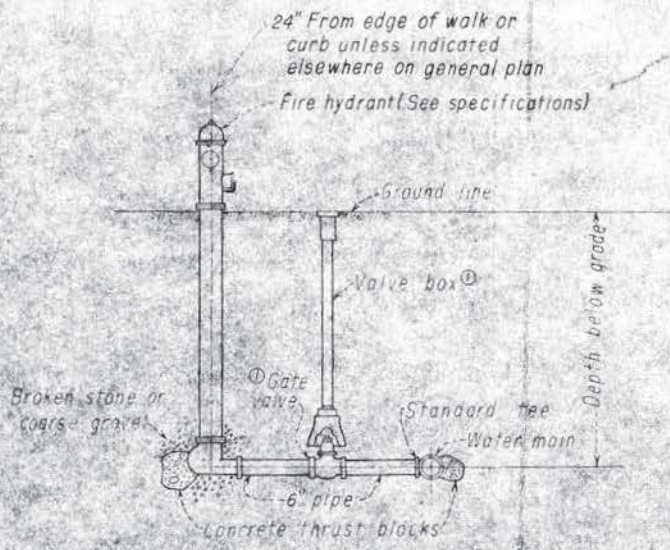


Photo 3 (Top Left) - Runoff at firehydrant located at Third Avenue and Sutter Street. Has a total chlorine residual of 0.18 mg/L and a free chlorine residual of 0.17 mg/L indicating water is from distribution system. Operators have attempted to locate the source of the leak but have been unsuccessful.

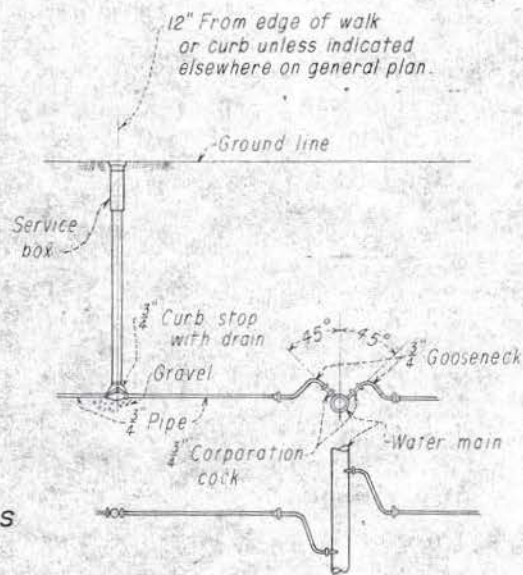
Photo 4 (Bottom Left) - Runoff from photo 1 running down Third Aveue.



Photo 5 (Bottom Right) - Runoff from photo 1 as it runs off the curb located at Third Avenue and Sutter Street.

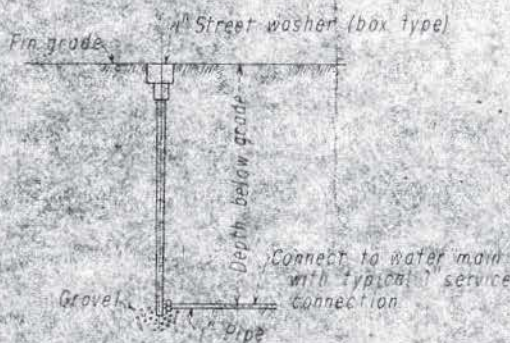


FIRE HYDRANT, VALVE AND CONNECTIONS

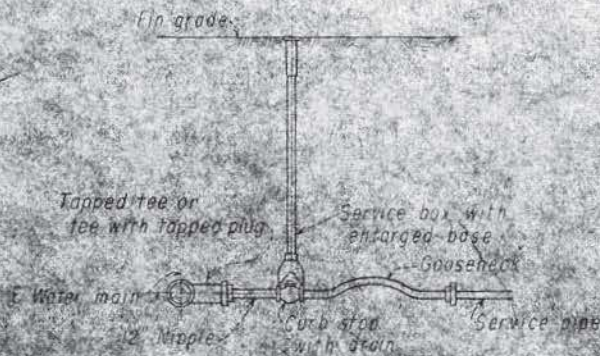


TYPICAL SERVICE CONNECTION

FOR 3/4" PIPE
SERVICE CONNECTIONS FOR 1" PIPE SIMILAR



STREET WASHER



SERVICE CONNECTION
FOR 1/2" AND 3/4" PIPE

NOTES

- Water mains to be C.I. or asbestos-cement.
- Provide concrete thrust blocks at all intersections and bends in water main.
- Backfill around pipe to be thoroughly tamped for height of 12" above top of pipe.
- Gate valve and valve box not required in temporary communities (See specifications for requirement).
- Joints in C.I. water mains to be caulked and leaded.
- Joints in Asbestos-cement water mains shall be flexible couplings similar to Johns-Manville simplex couplings.
- Where necessary to connect asbestos-cement pipe to the bell of C.I. elbows, tees and other fittings, the joints shall be caulked and leaded.

6-4-56	ADDED ASBESTOS-CEMENT PIPE AS ALTERNATIVE - NOTES
DR. CHA	ADDED LOCATION DIMENSIONS CHANGED.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION DENVER OFFICE	
COMMUNITY UTILITIES WATER DISTRIBUTION SYSTEM-TYPICAL DETAILS CAST IRON OR ASBESTOS-CEMENT MAINS	
DRAWN TRACED CHECKED DESIGNED	SUBMITTED RECOMMENDED APPROVED DENVER, COLORADO MAY 16, 1946
40-D-35	

INITIAL STUDY-NEGATIVE DECLARATION

FOR

LEWISTON COMMUNITY SERVICES DISTRICT WATER DISTRIBUTION SYSTEM REPLACEMENT PROJECT

P.O. BOX 164
LEWISTON, CA 96052

JANUARY 2019

JOB No. 2399.08.200



Pages from the Adopted Negative Declaration. For a complete copy, please contact Lewiston Community Services District.

LEWISTON COMMUNITY SERVICES DISTRICT
POST OFFICE BOX 164
LEWISTON, CALIFORNIA 96052
530-778-0306

January 8, 2019

To Whom It May Concern:

The Lewiston Community Services District (LCSD) presented the attached Initial Study – Proposed Negative Declaration (IS-ND) for the Lewiston Community Services District (LCSD) Water Distribution System Replacement Project located in Lewiston, Trinity County, California for public comment beginning November 8, 2018. The proposed project includes replacement of the existing Lewiston Park Subdivision distribution system.

The distribution system, installed circa 1957 during construction of the Trinity and Lewiston Dams, is composed of 4- to 6-inch asbestos cement pipe that appears to have joints packed with oakum and lead. Furthermore, the LCSD has found one lead service connection along Texas Avenue and presumes there are more. For the protection of human health, the proposed project includes installation of approximately 200 feet of 4-inch, 6,075 feet of 6-inch, and 4,000 feet of 8-inch water main within the right-of-way in the existing road, relocation of 16 service connections, reconnection of 151 service connections and 9 fire hydrants, and installation of a new fire hydrant.

As the lead agency, LCSD has found the proposed project will have less than significant environmental impact or no environmental impact given the previously disturbed project area and best management practices incorporated into the project. As such, a Negative Declaration (ND) was proposed.

LCSD submitted the IS-ND to the State Clearinghouse to be distributed to state agencies for review beginning November 8, 2018. The review period closed on December 12, 2018. Only two responses were received; one from the Department of Fish and Wildlife and one from the Native American Heritage Commission. Both responses are attached herein.

The Department of Fish and Wildlife indicated they have no comment at this time as the project is located within existing roadways within a residential neighborhood.

The Native American Heritage Commission had the following concerns:

1. "There is no documentation of government-to-government consultation by the lead agency under AB-52 with Native American tribes traditionally and culturally affiliated to the project area as required by statute, or that mitigation measures were developed in consultation with tribes.

2. The Cultural Report prepared by North State Resources in 2017 for the project was referenced in Section V Cultural Resources but was not included in the document submitted and could not be reviewed.”

LCSD notified three Native American Tribes in writing on December 6, 2018 of the proposed IS-ND and requested any comments be received by January 5, 2018. These letters can be found attached herein. The tribes’ contact information was provided by the Cultural Report prepared by North State Resources in 2017 for the Wastewater Collection, Treatment, and Disposal Project (WW Project). As discussed therein, the contact information was originally provided by the Native American Heritage Commission.

The Cultural Report prepared by North State Resources for the WW Project is considered a confidential document and is therefore not available publicly. As such, the Cultural Report found the WW Project to have no impact on historic, archaeological, or paleontological properties in the project area and vicinity. The WW project area of potential effect (APE) encompasses the APE of the proposed project; therefore, the Cultural Report can be used for both projects. Furthermore, the Project Manual for the proposed project includes provisions the Contractor must adhere to in the event cultural resources are discovered during project implementation.

The LCSD published the Notice of Intent to Adopt a Negative Declaration in the Trinity Journal on December 12, 2018.

As of January 8, 2018, LCSD has not received any additional comments from the public or Native American Tribes. As such, the LCSD Board of Directors adopted the IS-ND for the LCSD Water Distribution System Replacement Project on January 8, 2019 at their regularly scheduled Board Meeting.

Sincerely,



Mel Deardorff
Board President

Enclosures: Response Letter from State of California Governor's Office of Planning and Research
Document Details Report State Clearinghouse Data Base
Response Letter from Department of Fish and Wildlife
Response Letter from Native American Heritage Commission
Outreach Letters to three different Native American Tribes
Initial Study – Proposed Negative Declaration



EDMUND G. BROWN JR.
GOVERNOR

STATE OF CALIFORNIA
GOVERNOR'S OFFICE *of* PLANNING AND RESEARCH



KEN ALEX
DIRECTOR

December 13, 2018

Mel Deardorff
Lewiston Community Services District
P.O. Box 164
Lewiston, CA 96052

Subject: Lewiston Community Services District Water Distribution System Replacement Project
SCH#: 2018112026

Dear Mel Deardorff:

The State Clearinghouse submitted the above named Negative Declaration to selected state agencies for review. On the enclosed Document Details Report please note that the Clearinghouse has listed the state agencies that reviewed your document. The review period closed on December 12, 2018, and the comments from the responding agency (ies) is (are) enclosed. If this comment package is not in order, please notify the State Clearinghouse immediately. Please refer to the project's ten-digit State Clearinghouse number in future correspondence so that we may respond promptly.


Please note that Section 21104(c) of the California Public Resources Code states that:

"A responsible or other public agency shall only make substantive comments regarding those activities involved in a project which are within an area of expertise of the agency or which are required to be carried out or approved by the agency. Those comments shall be supported by specific documentation."

These comments are forwarded for use in preparing your final environmental document. Should you need more information or clarification of the enclosed comments, we recommend that you contact the commenting agency directly.

This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. Please contact the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process.

Sincerely,


Scott Morgan
Director, State Clearinghouse

Enclosures
cc: Resources Agency

**Document Details Report
State Clearinghouse Data Base**

SCH# 2018112026
Project Title Lewiston Community Services District Water Distribution System Replacement Project
Lead Agency Lewiston Community Services District

Type Neg Negative Declaration
Description Note: Review Per Lead

The distribution system installed circa 1957 during construction of the Trinity and Lewiston Dams is composed of 4- to 6-in asbestos cement pipe that appears to have joints packed with oakum and sealed with lead. Furthermore, the LCSD has found one lead service connection along Texas Ave and presumes there are more. For the protection of human health, the proposed project includes installation of approx 200 ft of 4-in, 6,075 ft of 6-in, and 4,000 ft of 8-inch water main within the ROW in the existing road, relocation of 16 service connections, reconnection of 151 service connections and 9 fire hydrants, and installation of a new fire hydrant. The District has completed the CEQA process for, and will be replacing, its wastewater collection system in the same area and roadways within the next two years.

Lead Agency Contact

Name	Mel Deardorff	
Agency	Lewiston Community Services District	
Phone	530-778-3869	Fax
email		
Address	P.O. Box 164	
City	Lewiston	State CA Zip 96052

Project Location

County	Trinity			
City				
Region				
Lat / Long	40° 41' 55.8" N / 122° 50' 26.2" W			
Cross Streets	Texas Ave, First St, Second St, Third St, Donner St, Sutter St, Trinity Vista, Fremont St			
Parcel No.	multiple			
Township	33N	Range	8W	Section 19,20 Base MDBM

Proximity to:

Highways	3
Airports	
Railways	
Waterways	Trinity River
Schools	Lewiston ES
Land Use	single family, commercial, PF

Project Issues Air Quality; Geologic/Seismic; Noise; Public Services; Traffic/Circulation

Reviewing Agencies	Resources Agency; Department of Conservation; Department of Fish and Wildlife, Region 1; Office of Historic Preservation; Department of Parks and Recreation; California Highway Patrol; Caltrans, District 2; State Water Resources Control Board, Division of Drinking Water; State Water Resources Control Board, Division of Drinking Water, District 1; State Water Resources Control Board, Division of Financial Assistance; Department of Toxic Substances Control; Native American Heritage Commission; State Lands Commission
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Date Received	11/08/2018	Start of Review	11/08/2018	End of Review	12/12/2018
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Note: Blanks in data fields result from insufficient information provided by lead agency.



State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Region 1- Northern
601 Locust Street, Redding, CA 96001
www.wildlife.ca.gov

EDMUND G. BROWN, Jr., Governor
CHARLTON H. BONHAM, Director



November 27, 2018

Governor's Office of Planning & Research

NOV 27 2018

Clear
12/12/18
6

STATE CLEARINGHOUSE

Mr. Mel Deardorff, President
Lewiston Community Services District
P.O. Box 164
Lewiston, CA 96052

Subject: Proposed Negative Declaration for the Lewiston Community Services District Water Distribution System Replacement Project, Trinity County, State Clearinghouse Number 2018112026

Dear Mr. Deardorff:

The California Department of Fish and Wildlife (Department) has reviewed the negative declaration for the above-referenced project (Project). The Department's review of this Project is pursuant to our role as the State's trustee for fish and wildlife resources under the California Environmental Quality Act, California Public Resources Code section 21000 et seq. The Project includes the replacement of the water distribution system within the Lewiston Park Subdivision. The Project is occurring within existing roadways within a residential neighborhood; therefore, the Department has no comment at this time. If the Project description changes in any way or additional biological resource information becomes available, the Department should be notified and provided an opportunity to offer comments regarding the updated information.

The Department appreciates the opportunity to review this Project. If you have any questions, please contact me at (530) 225-2138, or by email at Kristin.Hubbard@wildlife.ca.gov.

Sincerely,

Kristin Hubbard

Kristin Hubbard
Environmental Scientist

cc: Mel Deardorff
Lewiston Community Services District
meldeardorff@gmail.com

Kristin Hubbard
California Department of Fish and Wildlife
Kristin.Hubbard@wildlife.ca.gov

State Clearinghouse
state.clearinghouse@opr.ca.gov

NATIVE AMERICAN HERITAGE COMMISSION

Environmental and Cultural Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone (916) 373-3710
Fax (916) 373-5471



clear
12/12/18
E

November 27, 2018

Governor's Office of Planning & Research

Mel Deardorff, President
Lewiston Community Services District
P. O. Box 164
Lewiston, CA 96052

DEC 03 2018

STATE CLEARINGHOUSE

Also e-mailed to: meldeardorff@gmail.com

Re: SCH# 2018112026, Lewiston Community Services District Water Distribution System Replacement Project; City of
Lewiston, Trinity County, California

Dear Mr. Deardorff:

The Native American Heritage Commission (NAHC) has reviewed the Negative Declaration prepared for the project referenced above. The review included the Project Description; the Initial Study Environmental Checklist, section V, Cultural Resources and section XVII, Tribal Cultural Resources; and the Discussion of Environmental Impacts prepared by North State Resources for the Lewiston Community Services District. We have the following concerns:

1. There is no documentation of **government-to-government consultation by the lead agency** under AB-52 with Native American tribes traditionally and culturally affiliated to the project area as required by statute, or that mitigation measures were developed in consultation with the tribes.
2. The Cultural Report prepared by North State Resources in 2017 for the project was referenced in section V Cultural Resources but was not included in the document submitted and could not be reviewed.

Please contact me at gayle.totton@nahc.ca.gov or call (916) 373-3714 if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads 'Gayle Totton'.

Gayle Totton, B.S., M.A., Ph.D
Associate Governmental Project Analyst

Attachment

cc: State Clearinghouse

LEWISTON COMMUNITY SERVICES DISTRICT
POST OFFICE BOX 164
LEWISTON, CALIFORNIA 96052
530-778-0306

Honorable Mr. Jack Potter, Chairperson
Redding Rancheria
2000 Redding Rancheria Road
Redding, CA 96001

December 6, 2018

Dear Mr. Potter:

The Lewiston Community Services District (LCSD) intends to complete a Water Distribution System Replacement Project within the Lewiston Park Subdivision located in Lewiston, CA - see attached Figure 1.

The distribution system, installed circa 1957 during construction of the Trinity and Lewiston Dams, is composed of 4- to 6-inch asbestos cement pipe that appears to have joints packed with oakum and lead. Furthermore, the LCSD has found a lead service connection along Texas Avenue and presumes there could be more. Given the undersized, 62-year-old distribution system is known to be leaking in several locations, and for the protection of human health, the proposed project includes installation of approximately 200 feet of 4-inch, 6,075 feet of 6-inch, and 4,000 feet of 8-inch water main within the right-of-way in the existing road, relocation of 16 service connections, reconnection of 151 service connections and 9 fire hydrants, and installation of one new fire hydrant.

North State Resources reached out on behalf of LCSD in November 2016 regarding the Wastewater Collection, Treatment, and Disposal Project (Wastewater Project). The proposed Water Distribution System Replacement Project (Water Project) occupies a portion of the same area of potential effect as the Wastewater Project. All cultural mitigation measures developed as part of the Wastewater Project will also apply to the Water Project.

As the lead agency, LCSD has found the proposed project will have less than significant environmental impact or no environmental impact given the previously disturbed project area and best management practices incorporated into the project. As such, a Negative Declaration has been proposed.

LCSD published the Initial Study – Proposed Negative Declaration for public comment beginning November 12, 2018. The Initial Study – Proposed Negative Declaration can be viewed at the LCSD Office. Please provide any comments within 30 days of the date of this letter.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Mel Deardorff', is written over a horizontal line.

Mel Deardorff
Board President

LEWISTON COMMUNITY SERVICES DISTRICT
POST OFFICE BOX 164
LEWISTON, CALIFORNIA 96052
530-778-0306

Ms. Kelli Hayward
Wintu Tribe of Northern California
P.O. Box 995
Shasta Lake, CA 96019

December 6, 2018

Dear Ms. Hayward:

The Lewiston Community Services District (LCSD) intends to complete a Water Distribution System Replacement Project within the Lewiston Park Subdivision located in Lewiston, CA - see attached Figure 1.


The distribution system, installed circa 1957 during construction of the Trinity and Lewiston Dams, is composed of 4- to 6-inch asbestos cement pipe that appears to have joints packed with oakum and lead. Furthermore, the LCSD has found a lead service connection along Texas Avenue and presumes there could be more. Given the undersized, 62-year-old distribution system is known to be leaking in several locations, and for the protection of human health, the proposed project includes installation of approximately 200 feet of 4-inch, 6,075 feet of 6-inch, and 4,000 feet of 8-inch water main within the right-of-way in the existing road, relocation of 16 service connections, reconnection of 151 service connections and 9 fire hydrants, and installation of one new fire hydrant.

North State Resources reached out on behalf of LCSD in November 2016 regarding the Wastewater Collection, Treatment, and Disposal Project (Wastewater Project). The proposed Water Distribution System Replacement Project (Water Project) occupies a portion of the same area of potential effect as the Wastewater Project. All cultural mitigation measures developed as part of the Wastewater Project will also apply to the Water Project.

As the lead agency, LCSD has found the proposed project will have less than significant environmental impact or no environmental impact given the previously disturbed project area and best management practices incorporated into the project. As such, a Negative Declaration has been proposed.

LCSD published the Initial Study – Proposed Negative Declaration for public comment beginning November 12, 2018. The Initial Study – Proposed Negative Declaration can be viewed at the LCSD Office. Please provide any comments within 30 days of the date of this letter.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Mel Deardorff', with a stylized flourish at the end.

Mel Deardorff
Board President

LEWISTON COMMUNITY SERVICES DISTRICT
POST OFFICE BOX 164
LEWISTON, CALIFORNIA 96052
530-778-0306

Honorable Ms. Marilyn Delgado, Chairperson
Nor-Rei-Muk Nation
P.O. Box 1967
Weaverville, CA 96093

December 6, 2018

Dear Ms. Delgado:

The Lewiston Community Services District (LCSD) intends to complete a Water Distribution System Replacement Project within the Lewiston Park Subdivision located in Lewiston, CA - see attached Figure 1.

The distribution system, installed circa 1957 during construction of the Trinity and Lewiston Dams, is composed of 4- to 6-inch asbestos cement pipe that appears to have joints packed with oakum and lead. Furthermore, the LCSD has found a lead service connection along Texas Avenue and presumes there could be more. Given the undersized, 62-year-old distribution system is known to be leaking in several locations, and for the protection of human health, the proposed project includes installation of approximately 200 feet of 4-inch, 6,075 feet of 6-inch, and 4,000 feet of 8-inch water main within the right-of-way in the existing road, relocation of 16 service connections, reconnection of 151 service connections and 9 fire hydrants, and installation of one new fire hydrant.

North State Resources reached out on behalf of LCSD in November 2016 regarding the Wastewater Collection, Treatment, and Disposal Project (Wastewater Project). The proposed Water Distribution System Replacement Project (Water Project) occupies a portion of the same area of potential effect as the Wastewater Project. All cultural mitigation measures developed as part of the Wastewater Project will also apply to the Water Project.

As the lead agency, LCSD has found the proposed project will have less than significant environmental impact or no environmental impact given the previously disturbed project area and best management practices incorporated into the project. As such, a Negative Declaration has been proposed.

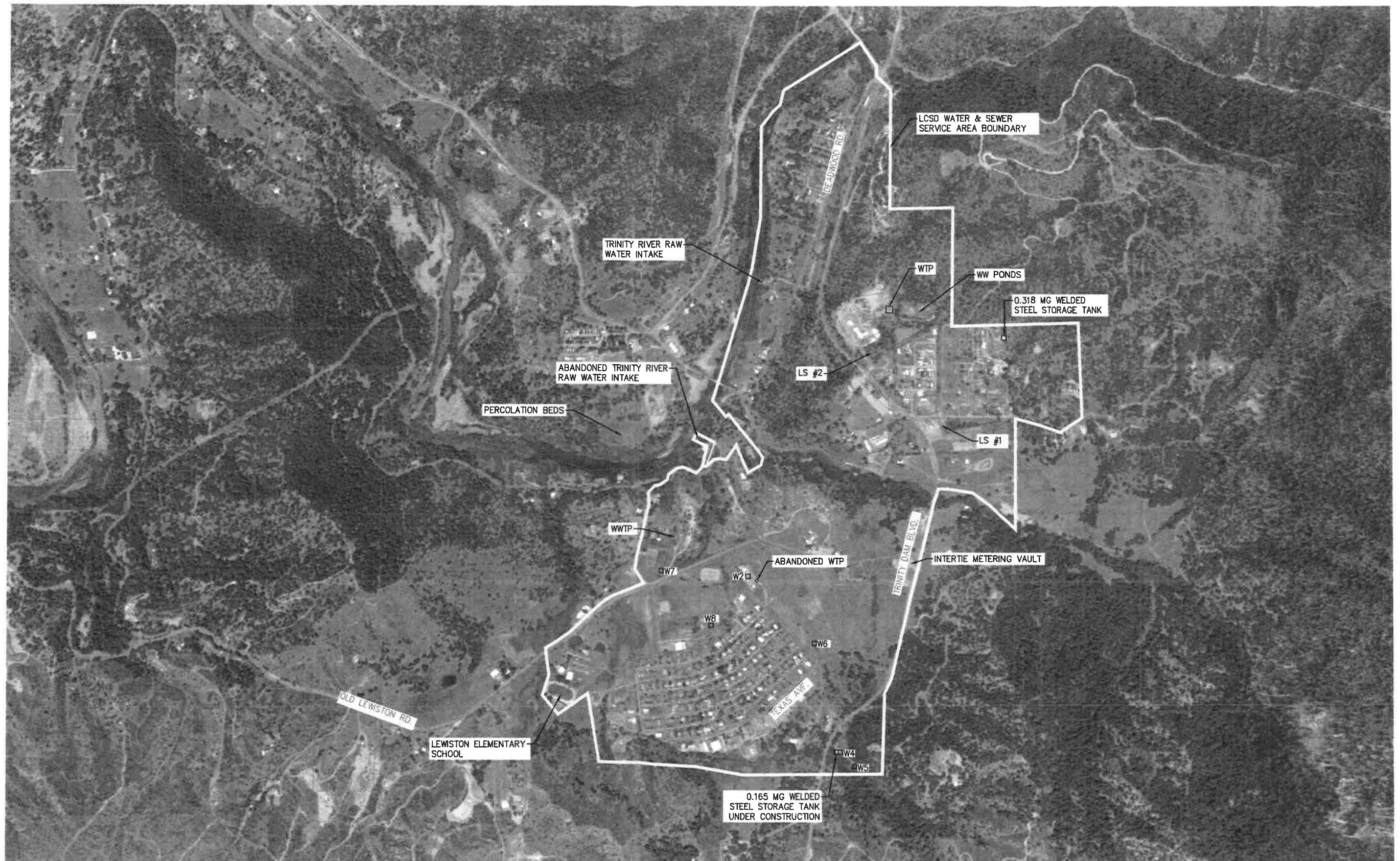
LCSD published the Initial Study – Proposed Negative Declaration for public comment beginning November 12, 2018. The Initial Study – Proposed Negative Declaration can be viewed at the LCSD Office. Please provide any comments within 30 days of the date of this letter.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Mel Deardorff', is written over a horizontal line.

Mel Deardorff
Board President

1" = 500'



BAR IS ONE INCH ON ORIGINAL DRAWING

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS	
NO	DATE

PACE
ENGINEERING
REDDING, CALIFORNIA

DES	TW	CKD	TW	JOB NO.
DRN	NH	DATE	12/05/18	2399.03

SIGNED

LEWISTON COMMUNITY SERVICES DISTRICT
WATER & SEWER SERVICE AREA BOUNDARY

FIGURE
1

**LEWISTON COMMUNITY SERVICES DISTRICT
POST OFFICE BOX 164
LEWISTON, CALIFORNIA 96052
530-778-0306**

November 7, 2018

To Whom It May Concern:

The Lewiston Community Services District (LCSD) would like to present the attached Initial Study – Proposed Negative Declaration for the Lewiston Community Services District Water Distribution System Replacement Project located in Lewiston, Trinity County, California. The proposed project includes replacement of the existing Lewiston Park Subdivision distribution system.

The distribution system, installed circa 1957 during construction of the Trinity and Lewiston Dams, is composed of 4- to 6-inch asbestos cement pipe that appears to have joints packed with oakum and lead. Furthermore, the LCSD has found one lead service connection along Texas Avenue and presumes there are more. For the protection of human health, the proposed project includes installation of approximately 200 feet of 4-inch, 6,075 feet of 6-inch, and 4,000 feet of 8-inch water main within the right-of-way in the existing road, relocation of 16 service connections, reconnection of 151 service connections and 9 fire hydrants, and installation of a new fire hydrant.

As the lead agency, LCSD has found the proposed project will have less than significant environmental impact or no environmental impact given the previously disturbed project area and best management practices incorporated into the project. As such, a Negative Declaration has been proposed.

LCSD will publish the Initial Study – Proposed Negative Declaration for public comment beginning November 12, 2018 and closing on December 12, 2018.

Sincerely,



Mel Deardorff
Board President

Enclosure

LEWISTON COMMUNITY SERVICES DISTRICT
WATER DISTRIBUTION SYSTEM REPLACEMENT PROJECT
INITIAL STUDY – PROPOSED NEGATIVE DECLARATION
NOVEMBER 2018

Lewiston is a small community located on the Trinity River near Weaverville, California. Lewiston Community Services District (LCSD or District) provides water and sewer services to a population of approximately 645 people according to the calculation based on the number of household equivalents served by the District, see Figure 1 for service area boundary. The water system is composed of a well field consisting of three operational wells, raw water intake structure on the Trinity River, surface water direct filtration treatment plant, one 318,000-gallon welded steel storage tank, one 160,000-gallon welded steel storage tank under construction, and distribution system composed of 10-inch to 4-inch asbestos cement (AC) pipe, ductile iron (DI) pipe, and polyvinyl chloride (PVC) pipe.

The distribution system within the Lewiston Park Subdivision (formerly Lewiston Park Mutual Water Company) was installed circa 1957 by the United States Department of the Interior, Bureau of Reclamation (USBR) for workers building the Lewiston and Trinity Dams and consists of 4-inch to 6-inch AC pipe. From the 1940s to the 1970s, AC pipe was the pipe of choice due to its strength, ability to resist corrosion, and light weight compared to steel and cast iron. According to an article published by the Public Works Magazine in 2009, AC pipe has a life expectancy of 40-60 years. As such, the AC pipe installed within the Lewiston Park subdivision has reached the end of its useful service life. Furthermore, recently exposed leaking joints in the AC pipe indicate the joints were sealed with Oakum. Oakum is a fiber that is impregnated with a tar-like substance, placed into the joint gap between the two pipes, and then sealed with lead. The LCSD has also found one lead service connection on Texas Avenue and presumes there are more. Lead is a toxic metal that can be harmful to human health even at low exposure levels. As indicated by the Environmental Protection Agency (EPA), young children, infants, and fetuses are especially vulnerable to lead as the behavioral and physical effects of lead occur at lower exposure levels in children than adults. As such, the EPA has set the maximum contaminant level goal (MCLG) for lead at zero.

For the protection of human health, the proposed project includes replacement of the Lewiston Park Subdivision distribution system, see Figure 2. Major components of the project include:

- Install 10,275 feet of water main and appurtenances as follows:
 - 1,650 feet of 6-inch water main along First Street
 - 1,475 feet of 6-inch water main along Second Street
 - 1,300 feet of 6-inch water main along Third Street
 - 1,825 feet of 8-inch water main along Texas Avenue
 - 975 feet of 8-inch water main along Fremont Street
 - 1,200 feet of 8-inch water main along Donner Street
 - 825 feet of 6-inch water main along Trinity Vista
 - 825 feet of 6-inch water main along Sutter Street

- 200 feet of 4-inch water main along Sutter Street
- Reconnect 151 service connections
- Relocate 16 service connections
- Reconnect 9 fire hydrants
- Install new fire hydrant at Texas Avenue and Donner Street

In an effort to keep costs down and minimize construction-related impacts to the community, the District would like to replace the Lewiston Park Subdivision distribution system at the same time it replaces its sewer collection system. The District was recently awarded a \$17.2 million grant for full replacement of its wastewater collection system and wastewater treatment plant, as well as rehabilitation of its wastewater ponds and percolation beds. The collection system is anticipated to be replaced in July 2019. As part of that project, North State Resources, Inc. completed an initial study-mitigated negative declaration (IS-MND). Since the LCSD Wastewater Collection, Treatment, and Disposal Project (Wastewater Project) includes the area indicated in the proposed project, the IS-MND for the Wastewater Project was referenced in completing this initial study.

An initial study was completed for the proposed project using Appendix G: Environmental Checklist Form from the Association of Environmental Professionals 2018 CEQA Statute & Guidelines. The Environmental Checklist Form can be found on the following pages. A discussion of each of the environmental impacts included in the evaluation begins on page 20.

APPENDIX G: ENVIRONMENTAL CHECKLIST FORM

NOTE: The following is a sample form and may be tailored to satisfy individual agencies' needs and project circumstances. It may be used to meet the requirements for an initial study when the criteria set forth in CEQA Guidelines have been met. Substantial evidence of potential impacts that are not listed on this form must also be considered. The sample questions in this form are intended to encourage thoughtful assessment of impacts, and do not necessarily represent thresholds of significance.

1. Project title: Lewiston Community Services District Water Distribution System Replacement Project
2. Lead agency name and address:
Lewiston Community Services District
P.O. Box 164
Lewiston, CA 96052
3. Contact person and phone number: Mel Deardorff, Lewiston Community Services District, (530) 778-3018
4. Project location: The core area of the census-designated place of Lewiston, Trinity County, California. See Figure 1
5. Project sponsor's name and address:
Lewiston Community Services District
P.O. Box 164
Lewiston CA 96052
6. General plan designation: Single Family (R-1), Commercial (C), Public Facilities (PF) 7. Zoning: R-1, PF, C-2 (General Commercial)
8. Description of project: (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)
The existing Lewiston Park water system was installed circa 1957 and consists of both 6-inch and 4-inch asbestos cement pipe. The project will replace approximately 3,025 feet of 6-inch and 5,400 feet of 4-inch asbestos cement pipe with approximately 4,000 feet of 8-inch and 6,275 feet of 6-inch PVC water pipe. The District will be replacing its wastewater collection system within the next two years and would like to replace its aged and leaking water distribution system at the same time in an effort to keep costs down and minimize construction impacts to the community.
9. Surrounding land uses and setting: Briefly describe the project's surroundings:
Rural Residential, Commercial, and Public Facilities
10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)
California State Water Resources Control Board, Division of Drinking Water; California Regional Water Quality Control Board (North Coast Region); California Department of Water Resources; Trinity County Planning Department
11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun? Yes
Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic

Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|---|---|--|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agriculture and Forestry Resources | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Geology /Soils |
| <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology / Water Quality |
| <input type="checkbox"/> Land Use / Planning | <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Population / Housing | <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Transportation/Traffic | <input type="checkbox"/> <u>Tribal Cultural Resources</u> | <input type="checkbox"/> Utilities / Service Systems |
| <input type="checkbox"/> Mandatory Findings of Significance | | |

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

☒ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

Date

Signature

Date