



Notice of Preparation of a Draft Environmental Impact Report

**Samoa Peninsula Waterline Right-of-Way
Maintenance Project**

Humboldt Bay Municipal Water District

October 20, 2023

→ **The Power of Commitment**



Notice of Preparation of Draft Environmental Impact Report **Samoa Peninsula Waterline Right-of-Way Maintenance Project**

Lead Agency:



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By:



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October 20, 2023

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1. Introduction

1.1 CEQA Requirements

The Samoa Peninsula Waterline Right-of-Way Maintenance Project (Project) is subject to the requirements of the California Environmental Quality Act (CEQA). The CEQA lead agency and decision-making body is the Humboldt Bay Municipal Water District (HBMWD or District). The HBMWD is responsible for assuring the completion of the appropriate evaluation and processes of the Project as required by CEQA. The HBMWD has the sole responsibility to make the appropriate findings and determinations with respect to the CEQA process and disposition of the Project. The purpose of this Notice of Preparation (NOP) is to inform the public, and responsible and trustee agencies that an Environmental Impact Report (EIR) will be prepared for the Project, and to solicit comments on the proposed Project and potential impacts to be addressed in the EIR. The EIR being prepared is intended to satisfy the requirements of CEQA (Public Resources Code, Division 13, Section 21000-21177), and the State CEQA Guidelines (California Code of Regulations, Title 14, Chapter 3, Section 15000-15387).

1.2 General Information

Protect Title: Samoa Peninsula Waterline Right-of-Way Maintenance Project

Lead Agency: Humboldt Bay Municipal Water District

PO Box 95

Eureka, CA, 95502-0095

Attn: John Friedenbach, General Manager, friedenbach@hbmwd.com, (707) 443-5018

1.2.1 Availability of Project Documents/Files

This NOP is available for review during the business week at the HBMWD office located at 828 7th Street, Eureka, between the hours of 8:30 a.m. to 12:00 p.m. and 1:00 p.m. to 5:00 p.m. An electronic version of this NOP is available for review on the HBMWD website (<https://www.hbmwd.com/district-news>).

1.2.2 Written Comments

Written comments on the scope of the EIR can be sent to John Friedenbach at the HBMWD office at the above-noted address. Additionally, comments may be submitted electronically via email to: friedenbach@hbmwd.com.

1.2.3 Comment Period

CEQA Guidelines Section 15082 (b) requires a 30-day response period for input about the scope and content of the EIR. The comment period for the NOP begins on October 20, 2023 and ends on November 20, 2023. The deadline for submitting written comments is November 20, 2023 at 5:00 p.m.

1.2.4 Public Scoping Meeting

A public scoping meeting will be held to further inform agencies and interested parties about the Project, and to accept comments on the environmental issues germane to the Project. The meeting will be held on November 9, 2023 at 10:00 a.m. at the HBMWD offices. The HBMWD is located at 828 7th Street Eureka, California 95502.

2. Project Description

2.1 Project Location and Setting

The Project is located in coastal Humboldt County, California, within the Samoa Peninsula (see **Figure 1**). The Project Area is located within the Coastal Zone, specifically, within the Appeal jurisdiction of the Coastal Zone, which is regulated by Humboldt County under the Humboldt Bay Area Plan Local Coastal Program (HBAP), and appealable to the California Coastal Commission (CCC).

The Humboldt Bay Municipal Water District (HBMWD or “District”) was formed in 1955 and is a regional wholesale water provider that supplies water to approximately 88,000 people in the Humboldt Bay area. HBMWD has two separate and distinct water systems, a domestic system and an industrial system. The domestic system contains treated potable water that comes from wells that draw water from the aquifer beneath the Mad River. HBMWD supplies drinking water to seven wholesale municipal customers which include the cities of Arcata, Blue Lake, and Eureka, as well as community services districts (CSDs) serving the following unincorporated areas: the Humboldt, Fieldbrook/Glendale, Manila, and McKinleyville CSDs. These municipal customers in turn serve water to approximately 66% of the people in Humboldt County.

The industrial system delivers untreated surface water from the Mad River that is utilized for commercial use and fire suppression on the Samoa Peninsula. The industrial system contains two pipelines (or “waterlines”) which converge into one pipeline (or “waterline”) approximately 1.5 miles south of the northern terminus of the Project Area. At around the turn of the 21st century, timber operations slowed and processing facilities within the Samoa Peninsula began to close. The last major timber processing facility, Freshwater Tissue Company, closed in 2010. Due to the current relatively small demand for industrial water, the District’s ROW maintenance schedule within the Samoa Peninsula has been deferred or carried out minimally. However, with anticipated growth of industrial services within this area in the near future (e.g. aquaculture, Humboldt Bay port development, etc.), the District wishes to continue ROW maintenance work along its industrial and domestic waterlines to maintain access to this critical infrastructure for repairs or replacement (including the specific replacement of certain infrastructure components described in Section 2.2), and thus continue to deliver water throughout the distribution area.

2.2 Project Activities

The existing ROW alignment of the domestic and industrial waterlines extends from the east (Arcata) via the Mad River Slough crossings and traverses south through the Samoa Peninsula. The domestic waterline ultimately continues south into Eureka to provide water to the Humboldt CSD (see **Figure 1**). The Project Area for the proposed Project is approximately 7.37 miles and includes approximately 5.71 miles of District ROW and 1.66 miles of County ROW throughout the Samoa Peninsula as shown in **Figure 2-1 through 2-3**. The Project Area includes the Districts ROW which is predominantly 30 feet wide, and in some locations 50 feet wide, and the County’s ROW which varies by width (see **Figure 2-3**). Approximately 0.86 acres (37,300 square feet) of the northern Phase 1 area is located outside of the District’s ROW on property owned by the Redwood Gun Club. The total area of the Project is 54.49 acres, which includes 29.71 acres within the District’s ROW, 0.86 acres on private property (owned by the Redwood Gun Club), and 23.93 acres within the County ROW. All Project work will occur within the 54.49-acre Project Area. The District will access its pipeline for Project activities through its ROW, recorded deeds of easement to the pipeline ROW, or through the public ROW.

Proposed Project activities include both general maintenance activities, and specific Project components.

Project maintenance activities include:

- Removal of vegetation (grasses, herbaceous plants, shrubs, and trees),
- Grubbing,
- Filling and/or movement of sand or soil to safeguard District infrastructure,
- Excavation for pipeline repairs and replacement, and
- Other activities required for accessing the District’s infrastructure and managing and maintaining water service in this region.

And specific Project components include:

- Replacement of an existing 15-inch pipe,
- Overflow pipe area maintenance,
- Electrical line installation,
- Techite pipe replacement project maintenance

Additional information on the listed activities above is included in Sections 2.2.1 through 2.2.5 below.

2.2.1 General Maintenance Activities

Vegetation (herbaceous plants, vines, shrubs and trees) will be trimmed and/or removed throughout the District’s ROW in order to enable access to HBMWD infrastructure. Vegetation will be trimmed or removed utilizing mechanical and hand tools, such as masticator and loppers or chainsaws. When possible, vegetation will be trimmed or removed outside of the nesting bird season, which is considered March 15 through August 15 in this region, otherwise surveys for nesting birds will occur prior to vegetation trimming or removal in accordance with the forthcoming Project permits.

Mechanical movement of sand is anticipated to be required to keep infrastructure buried to appropriate depths, and is expected to occur predominantly in the northern half of the Project Area where there is a lack of woody species. Excavations may also occur to access, maintain, repair or replace HBMWD infrastructure. Heavy machinery including bull dozers, backhoes and excavators will be utilized for sand movement, burial of infrastructure, and excavations.

It should be assumed that biological resources throughout the entirety of the Project Area could be removed or manipulated under this Project for the purpose of maintaining access to HBMWD’s infrastructure.

2.2.2 15-inch Pipe Replacement

The District’s domestic water pipeline serving the Samoa Peninsula is made up of several segments of varying sizes. A 27-inch pipe conveys water from the District’s Essex Facility and transitions to a 15-inch pipe approximately one mile south of the Redwood Gun Club. Based on the District’s consideration of current domestic water usage on the peninsula, potential future developments, and the age of the existing piping, the District is considering replacing the existing 15-inch portion with a larger 24-inch PVC pipe. The 15-inch pipe segment to be replaced is approximately four miles in length, approximately located between the one-million-gallon industrial water tank (southerly terminus) to one mile south of the Redwood Gun Club (northerly terminus) (see **Figure 2-2**). Trenching depth will be approximately 5-7 feet deep to install the replacement pipe, with approximately 3-5 feet of cover above the new pipe. All work will occur within the District’s ROW.

2.2.3 Overflow Pipe Area Maintenance

Currently an overflow discharge point exists approximately 445 feet west of the one-million-gallon industrial water tank located west of Vance Avenue between LP Drive and Bay Street in the southern portion of the peninsula (see **Figure 2-3**). The discharge point is connected to the water tank via a subsurface pipe, and the entirety of the area is within the District's ROW. When the water tank is at capacity, any additional water gradually overflows through the discharge point onto the beach. Maintenance activities in this area will include movement of sand, stabilization of the discharge point to reduce potential erosion (i.e. potential use of rip rap around the discharge point), overflow pipe replacement (including the necessary excavation for replacement), and vegetation removal to retain access throughout the ROW.

2.2.4 Electrical Line Installation

One of the Project components is to abandon and replace an underground electrical line. The current line is buried and consists of insulated aluminum wire with no conduit, and starts at Bay Street and terminates north at the District's meter building near their one-million-gallon industrial water tank. The current line is approximately 2,400 feet long. The line has become un-operational likely due to winter storms and/or deterioration of the line due to its age. This Project component includes the abandonment of the existing line in place and installation of a new line parallel to the old line. The new line will consist of 2-3 inch diameter PVC conduit, copper wire, and will likely be installed into a trench approximately 3-4 feet deep and buried. Clearing of various shrub and trees will be necessary approximately 10-15 feet wide to construction access for the length of the newly placed line (approximately 2,400 linear feet). Once the line is installed the area will be kept clear of vegetation for maintenance and access reasons at least once every five years.

2.2.5 Techite Pipe Maintenance

The District will conduct maintenance actions along New Navy Base Road between the existing one-million-gallon industrial water tank and Lincoln Avenue. Maintenance actions will occur within the road right of way and may involve the removal of asphalt, excavation, grading, pipe repairs and/or replacement. No work will occur outside of the road ROW.

2.3 Existing Biological Data

Biological surveys conducted in 2022 and 2023 within the Phase 1 and 2 portions of the Project Area indicate the presence of three- and one-parameter wetlands which are regulated by the U.S. Army Corps of Engineers (USACE), the North Coast Regional Water Quality Control Board (NCRWQCB) and Humboldt County via the HBAP, respectively, as well as upland Sensitive Natural Communities (SNCs) (which will likely be considered Environmentally Sensitive Habitat Areas [ESHA] under the HBAP) and federally and state Endangered Species Act (ESA) listed beach layia (*Layia carnosa*) and Menzies' wallflower (*Erysimum menziesii*). Impacts to these resources is assumed to occur, and subsequent mitigation will be completed as feasibly close to the Project Area as possible. It is possible that additional federally and/or state ESA listed species may occur in the remaining Phase 3 area. Impacts to biological resources will be avoided when possible. Affected biological resources will be mitigated as warranted based on agreements with jurisdictional agencies as determined during Project permitting.

2.4 Project Implementation Schedule

It is anticipated that implementation of Project components throughout the entire 7.37-mile Project Area will occur in phases over time. Each phase of Project activities is assumed to include up to two miles per year (with the exception of the 15-inch pipe replacement component which spans four miles). After the entire Project Area is initially maintained (i.e. cleared of vegetation, graded and maintained as needed), the Project Area will be revisited at least once every five years for maintenance upkeep which could include vegetation trimming or removal, movement of sand or other activities necessary to safeguard continued access to HBWMD infrastructure. Other Project components, such as repairs/replacement of pipe and other related appurtenances, management of the overflow pipe area, electrical line, techite pipe and 15-inch pipe replacement areas, may occur on a more accelerated schedule. For the purpose of defining this Project's parameters, the lifespan of this Project (also referred to as the Project's operational period) is assumed to be 50 years.

2.5 Project Equipment and Staging

Equipment to be utilized under the Project could include the following: excavators (and attachments), backhoes, bull dozers, front end loaders, tree trimmers, chainsaws, graders, dump trucks, and various smaller equipment and hand tools. Staging will occur along the Project Area or within a paved or previously disturbed area near the Project Area.

2.6 Regulatory Context

The Project will require a variety of permits due to the Project's effects on protected public trust resources located within the Project Area, including (but not limited to) three-parameter wetlands, one-parameter wetlands, upland SNC/ESHA, and federally and/or state threatened or endangered plants (GHD 2022 and 2023). The following permits are anticipated to be required for Project implementation:

- Coastal Development Permit from Humboldt County via the Humboldt Bay Area Plan Local Coastal Program for impacts to protected coastal resources. The Project Area is located in the Appeal jurisdiction of the Coastal Zone;
- Section 404 of the Clean Water Act (CWA) Individual Permit from the USACE for impacts to jurisdictional Waters, including wetlands, and a Wetlands Mitigation and Monitoring Plan;
- Section 401 of the CWA Water Quality Certification from the North Coast Regional Water Quality Control Board (NCRWQCB) for impacts to regulated Waters, including wetlands;
- Coordination with the California Department of Fish and Wildlife (CDFW) for potential impacts to California ESA (CESA) listed beach layia and Menzies' wallflower, an Incidental Take Permit or Consistency Determination is anticipated;
- Formal consultation with the U.S. Fish and Wildlife Service (USFWS) for potential impacts to federally ESA listed beach layia and Menzies' wallflower (i.e. preparation of a Biological Assessment), and a Rare Plant Mitigation and Monitoring Plan;
- California Environmental Quality Act (CEQA) Environmental Impact Report.

Ultimately, it is anticipated that the entire 7.37-mile Project Area will be under a single permit per agency, and that the permits granted for this Project will be renewed upon expiration and thus remain active for the long-term.

3. Probable Environmental Effects of the Project

Per CEQA Guidelines Section 15082 (a)(1)(c), the probable environmental effects of the Project, are summarized below based on a preliminary review of the Project. Probable environmental effects are organized by the environmental resource categories identified in Appendix G of the CEQA Guidelines. Because there is the potential for significant impacts to occur as a result of the Project, even with the use of mitigation measures, HBMWD has determined that an EIR will be prepared. The EIR will provide site specific information and analysis relevant to the Project, evaluate Project alternatives, and will identify mitigation measures where significant impacts are identified.

For the reasons described below, HBMWD does not anticipate the Project will have any impact on two environmental resource categories: Agricultural and Forestry Resources, and Mineral Resources. These resource categories will not be analyzed in the EIR unless input from responsible agencies, trustee agencies, or the public during the scoping period indicate an analysis is warranted.

3.1 Aesthetics

The Project Area is highly scenic and includes coastal dunes, dune swales, and forested dunes. In many locations, Project activities are not anticipated to substantially degrade scenic resources because the majority of the Project Area is already cleared of vegetation. However in some locations vegetation removal and movement of sand may substantially degrade scenic resources. The specific infrastructure component work, such as the 15" pipe replacement component, is anticipated to have temporary impacts to scenic resources due to the prolonged presence of equipment. The EIR will analyze the potential impacts to aesthetic resources, and if appropriate, include feasible mitigation measures.

3.2 Agricultural and Forestry Resources

The Project Area is along the Samoa peninsula and there are no agricultural or forestry land uses within the Project Area. There are no agricultural or timber zoning or active Williamson Act contracts within the Project Area. Additionally, the Project Area is composed of sand dunes, and is not considered agricultural soil or a timber producing area. Therefore, the Project is not expected to impact agricultural and forestry resources and this resource category will not be included in the EIR.

3.3 Air Quality

The Project Area is located within the North Coast Air Basin (NCAB), which is under the jurisdiction of the North Coast Unified Air Quality Management District (NCUAQMD). The NCAB is currently in attainment (or is unclassified) for all state and federal ambient air quality standards, with the exception of the state standard for particulate matter less than ten micrometers in diameter (PM₁₀). The EIR will discuss temporary air quality impacts from Project implementation and ongoing operation of the Project (e.g., equipment and vehicle exhaust emissions). For the purpose of this EIR and permitting, the Project's operational period is assumed to be fifty years. The EIR will also discuss the Project's conformity with applicable air quality plans and exposure of sensitive receptors to criteria air pollutants and odors. Mitigation measures for significant impacts will be included where applicable and feasible.

3.4 Biological Resources

The Project Area includes wetlands, coastal dunes, herbaceous and forested vegetated dunes, and uplands that support a diverse array of aquatic and terrestrial biological resources. The EIR will utilize a number of special studies in the preparation of this section, including a site-specific wetland delineation, rare plant assessment and surveys, among others. The EIR will analyze potential impacts to special status wildlife and plant species, riparian habitat, Sensitive Natural Communities, upland Environmentally Sensitive Habitat Areas, wetlands, migratory corridors, and potential conflicts with policies or ordinances protecting biological resources and the EIR will include feasible mitigation measures given significant impacts are anticipated. It is anticipated that off-site mitigation will be completed to account for unavoidable impacts to biological resources. The EIR will also include an inventory of the biological resources within the proposed mitigation sites.

3.5 Cultural Resources

A Cultural Resources Investigation will be prepared to inventory cultural resources in the Project Area, and to assess potential impacts on these resources from Project activities. Potential impacts could include the destruction of known or unknown cultural resources. The EIR will include the results from this investigation and identify mitigation measures if potentially significant impacts could occur. An inventory of the cultural resource value of the biological resource mitigation area will be included in the EIR.

3.6 Energy Resources

The majority of California's energy-related plans are not directly applicable to the Project or its ongoing operations; however, the Project complies with the plan requirements that apply. Ongoing maintenance operations of the Project will involve a variety of earthwork and construction practices, involving the use of heavy equipment. This equipment will require the use of fuels, primarily gas, diesel, and motor oil. The EIR will include and discuss the results of CalEEMod estimations and quantifications related to energy use throughout the Project construction and operation period.

3.7 Geology and Soils

Geologic and soils issues include potential erosion, loss of topsoil, and sedimentation during and after Project actions due to proposed vegetation removal, as well as changes in sand movement associated with removal of vegetation from the coastal dunes, grading, and infrastructure replacement. The EIR will describe the site's existing geologic conditions and soils based on existing information and technical reports prepared for the Project. The EIR will include an analysis of the geology of the site as it relates to slope stability, earthquake hazards, landslides, and other potential geologic hazards, and recommend appropriate mitigation measures if potentially significant impacts are identified.

3.8 Greenhouse Gas Emissions

The EIR will evaluate the potential impact of the Project on greenhouse gas emissions. Potential GHG emissions resulting from the Project will be estimated and quantified using CalEEMod emissions modeling software, assuming ongoing maintenance actions over 50 years. The NCUAQMD has not adopted a threshold for construction-related GHG emissions against which to evaluate significance and has not established construction-generated criteria air pollutant screening levels above which quantitative air quality emissions would be required; however, this potential impact will be further discussed in the EIR.

3.9 Hazards and Hazardous Materials

The EIR will discuss potential hazards in the Project Area, identify appropriate spill prevention measures, identify potential impacts to construction workers and recreation users due to potential soil contamination and other potential hazards at the site. Phase I and II Environmental Site Assessments were not completed for the Project and are not assumed to be needed; however, a records search of the California Department of Toxic Substances Control (DTSC) Cortese List, and of the State Water Resources Control Board's Geotracker database will be conducted. This information will be used in the analysis and appropriate mitigation measures incorporated if potentially significant impacts are identified.

3.10 Hydrology and Water Quality

The Project is not located immediately adjacent to any receiving waterways. There is typically approximately 500 feet between the ROW and the ocean, and therefore potential impacts to water quality from maintenance activity related runoff, such as sedimentation or contamination, are not anticipated. The EIR will discuss Project actions that could result in water quality degradation or violation of water quality standards. Appropriate mitigation measures will be incorporated if potentially significant impacts are identified.

3.11 Land Use and Planning

The Project is within the Appeal jurisdiction of the Coastal Zone and will require a Coastal Development Permit from Humboldt County per the California Coastal Act. The EIR will describe existing land uses in the Project Area, assess Project impacts and identify any potential land use conflicts.

3.12 Mineral Resources

There are no existing mining operations in the Project Area. The Project Area is primarily comprised of sand and contains no known mineral resources available for extraction. There are no Surface Mining and Reclamation Act-designated parcels located within the Project Area. Although Humboldt County has not yet been included in the California Mineral Land Classification System by the State Mining and Geology Board to designate lands containing mineral deposits of regional or statewide significance, it seems evident that the Project Area would not rise to the level of significance for mineral resource extraction. Therefore, the Project is not anticipated to result in a loss of mineral resources and this resource category will not be included in the EIR.

3.13 Noise

Noise levels will increase during Project activities which will occur periodically over the course of the Project operational period (50 years). The EIR will describe the existing noise levels in the Project Area and identify noise sensitive receptors in the Project vicinity, which are considered (but not limited to) schools, residences, libraries, hospitals, and other care facilities. Potential impacts of noise on wildlife will be discussed in the Biological Resources section. The only sources of noise deviations will occur during implementation of specified Project components, i.e. installation of the 15" pipe, because general maintenance activities have been historically carried out. However, all Project related noise levels will be compared to existing noise levels and applicable noise standards to determine if the Project will cause a significant increase in ambient noise levels. Appropriate mitigation measures will be incorporated if significant impacts are identified.

3.14 Population and Housing

The proposed Project will not add any new homes or businesses, nor extend any roads or other infrastructure within the Project Area. The Project will not cause any displacement of housing or people, on or adjacent to the site. However, the proposed 15-inch pipeline replacement component of the Project includes installation of a 24-inch domestic water pipe. Therefore this increased diameter pipeline has greater capacity to provide increased volume of water, which could facilitate future expanded industry, population or housing. The entire Project, including the 15-inch pipe replacement component, will be discussed in the EIR through the lens of potential population and housing growth and mitigation measures will be incorporated if appropriate.

3.15 Public Services

It is unlikely that the Project will directly increase population, therefore, it is not anticipated that the Project will increase the need for public services. However, as described above, the Project has the potential to support future population increase, and therefore need for public services will be discussed in the EIR.

3.16 Recreation

The Project may temporarily obstruct points of access to the beach during maintenance actions. However, alternate access will be provided. The Project is not anticipated to place additional demands on recreational facilities or require recreational facility construction or expansion. Appropriate mitigation measures will be incorporated if potentially significant impacts are identified.

3.17 Transportation

The Project may result in increased traffic during maintenance actions, which may temporarily decrease the overall performance and safety of local roadways. The EIR will discuss existing and proposed Project traffic volumes in relation to the Project Area and recommend mitigation measures if significant impacts are identified.

3.18 Tribal Cultural Resources

Tribal cultural resources are sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either included or determined to be eligible for inclusion in the California Register of Historical Resources; or included in a local register of historical resources as defined in subdivision (k) of Section 5020.1; or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1. The Project may potentially encounter known or as-of-yet unknown archaeological materials during Project-related activities. If such resources were to represent as “tribal cultural resources” as defined by CEQA, any substantial change to or destruction of such resources would be a significant impact. The EIR will analyze tribal cultural resources per Public Resources Code Section 21080.3.1, and include mitigation measures, if applicable, per Public Resources Code Section 21080.3.2.

3.19 Utilities and Service Systems

The Project is a utilities project designed to create dependable access for routine inspection, operation, maintenance, modification, and replacement of HBMWD infrastructure (pipelines, valves, etc.) along the

District's ROW. The Project does not include the construction of new facilities (residential, commercial, or industrial) that will place additional long-term demands on public water systems, wastewater systems, or landfills. The proposed 15-inch pipe replacement component will result in an increased capacity of water supply (via the larger diameter pipeline) available to water users, replacement of aging infrastructure and a more uniform diameter water pipeline throughout the Samoa Peninsula. No new connections to the 15-inch pipe replacement component are proposed, rather existing connections would be replaced during this Project component. Landfills may be used for disposal of HBMWD infrastructure removed from the Project Area. The EIR will analyze potential impacts related to utilities and service systems, and feasible mitigation measures will be incorporated if significant impacts are identified.

3.20 Wildfire

According to mapping from CAL FIRE, the Project is in the Local Responsibility Area, adjacent to zones designated as having a high, moderate or unzoned fire hazard severity. The vegetated portions of the Project Area could be susceptible to wildfire during Project activities due to accidental ignition. The Project will not block emergency access during implementation of Project activities. The EIR will analyze potential impacts related to wildfire, emergency operation plans, and other elements that might exacerbate fire risks. Mitigation measures will be incorporated if significant impacts are identified.

Appendices

Appendix A

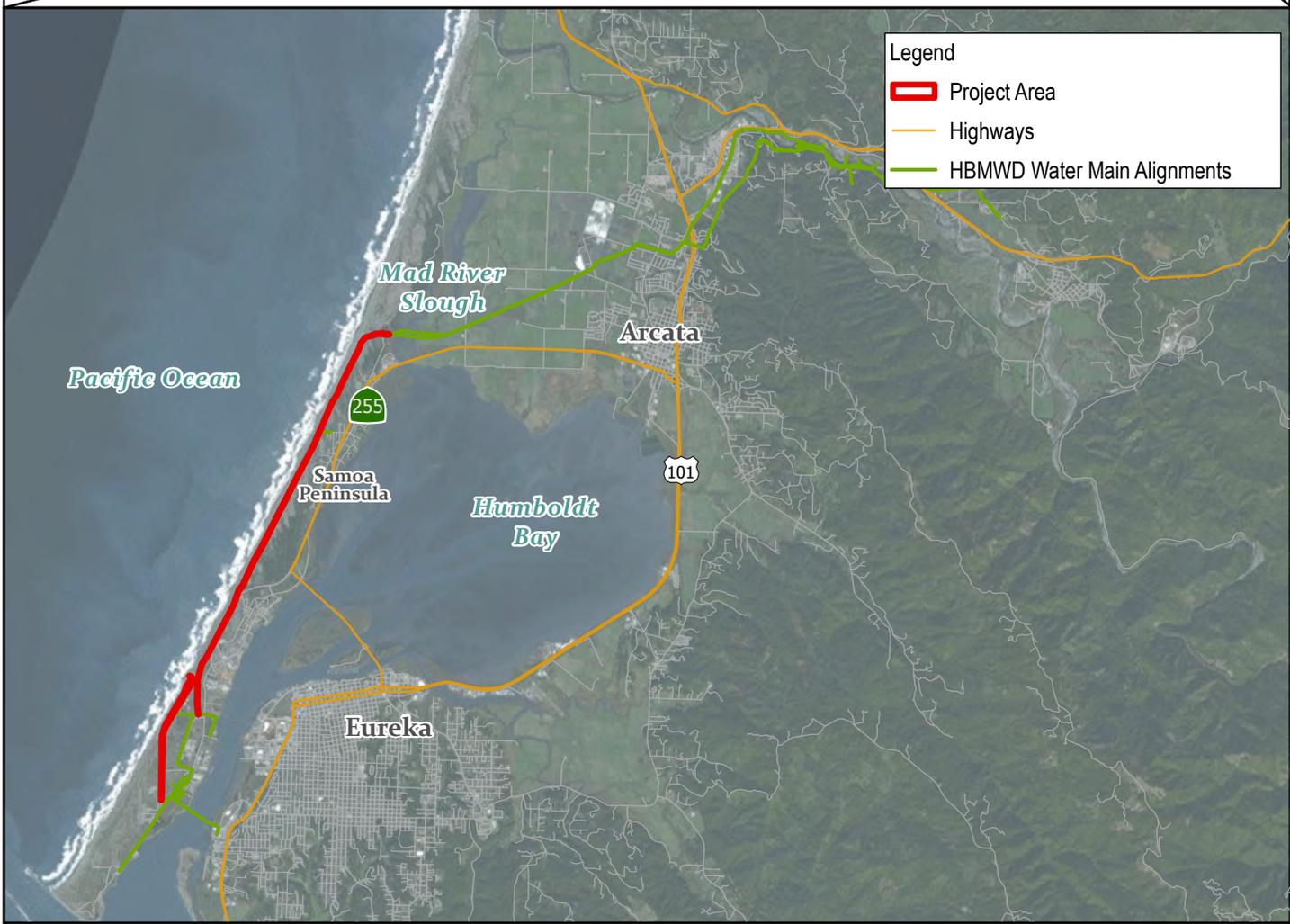
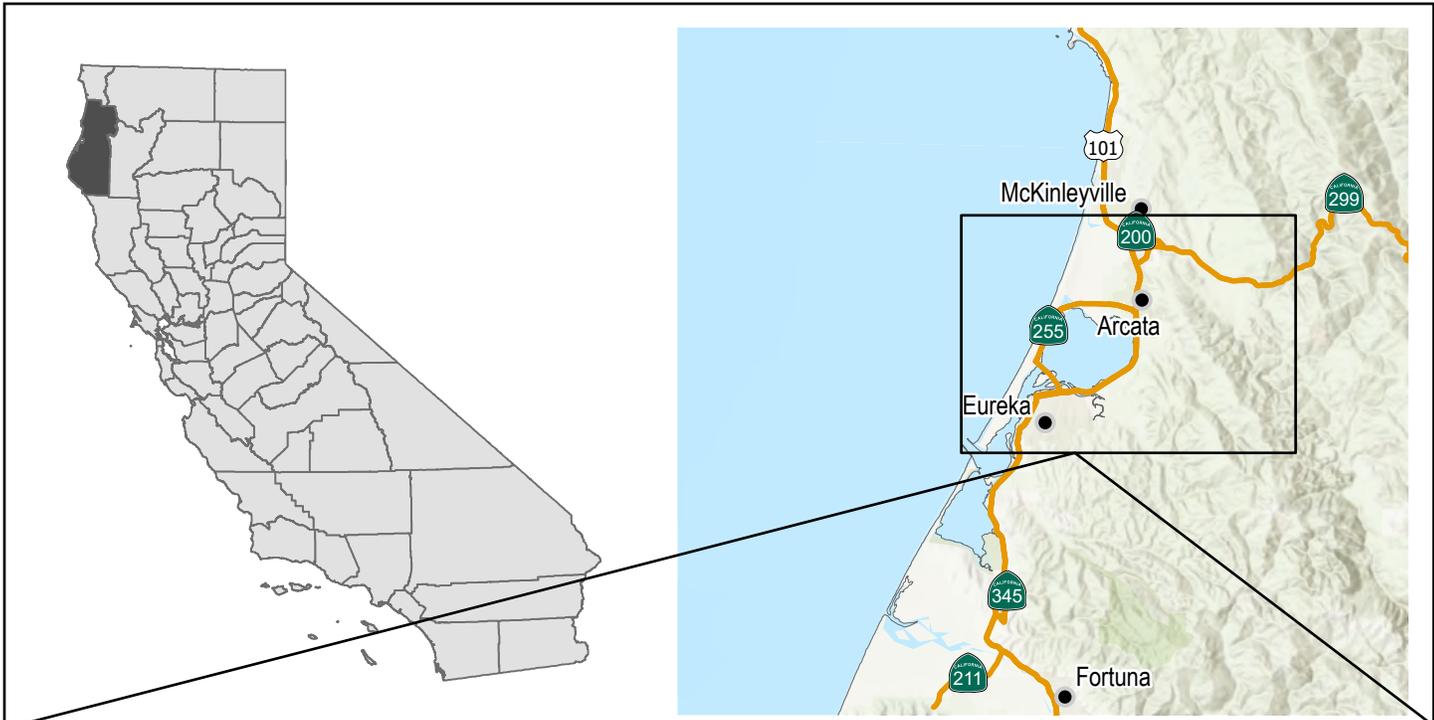
Figures

Figure 1: Project Vicinity

Figure 2-1: Project Area

Figure 2-2: 15-inch Pipe Replacement Project Component

Figure 2-3: Project Components in Phase 3



Paper Size ANSIA
 0 1 2
 Miles
 Map Projection: Mercator Auxiliary Sphere
 Horizontal Datum: WGS 1984
 Grid: WGS 1984 Web Mercator Auxiliary Sphere



**Humboldt Bay Municipal Water District
 Samoa Peninsula Waterline
 Right-of-Way Maintenance Project**

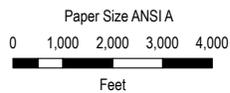
Project No. 12603983
 Revision No. -
 Date Sep 2023

Project Vicinity

FIGURE 1

Legend

- Phase 1 (Surveyed 2022)
- Phase 2 (Surveyed 2023)
- Phase 3 (To be surveyed in 2024)
- HBMWD Water Main Alignments
- Highways
- Roads



**Humboldt Bay Municipal Water District
Samoa Peninsula Waterline
Right-of-Way Maintenance Project**

Project No. 12603983
Revision No. C
Date Sep 2023

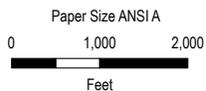
Map Projection: Lambert Conformal Conic
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

Project Area

FIGURE 2-1

Legend

- Phase 1 (Surveyed 2022)
- Phase 2 (Surveyed 2023)
- Phase 3 (To be surveyed in 2024)
- HBMWD Water Main Alignments
- Highways
- Roads



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

Humboldt Bay Municipal Water District
 Samoa Peninsula Waterline
 Right-of-Way Maintenance Project

Project No. 12603983
 Revision No. C
 Date Sep 2023

**15-inch Pipe
 Replacement Project Component**

FIGURE 2-2



Legend

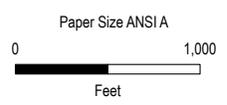
- Phase 3 (To be surveyed in 2024)
- Humboldt County Roads ROW
- HBMWD Water Main Alignments
- Roads

Techite Pipe Maintenance Area

Overflow Pipe Area

Electrical Line Installation

Data Disclaimer
 Humboldt County Roads Right of Way (ROW) determined by GIS data of approximate parcel boundaries



Map Projection: Lambert Conformal Conic
 Horizontal Datum: North American 1983
 Grid: NAD 1983 StatePlane California 1 FIPS 0401 Feet

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Project No. 12603983
 Revision No. C
 Date Sep 2023

**Project Components
 in Phase 3**

FIGURE 2-3

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Data source: World Imagery (Clarity). This work is licensed under the Esri Master License Agreement.View Summary | View Terms of Use.Export: This layer is not intended to be used to export tiles for offline. Data Collection and Editing: This layer may be used in various ArcGIS apps to support data collection and editing, with the results used internally or shared with others, as described for these use cases.. Created by: jlopez4

