HUMBOLDT BAY
HARBOR, RECREATION AND CONSERVATION
DISTRICT

P.O. BOX 1030
Eureka, California 95502
(707) 443-0801
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Date Filed_____

General Information	For Commission Use
1) Name & Address of Developer, Project Sponsor and Legal Owner *Coast Seafoods Company* *25 Waterfront Drive* *Eureka, CA 95501*	A. Application No. 15-05 Application Type: Franchise ☐ Permit ☐ Lease ☐
2) Address of Project and Assessor's block, lot and Parcel Number *1 TCF Drive,* *Samoa, California* *The area known as Berth 2 and controlled by the Humboldt Bay Harbor, Recreation and Conservation District, including portions of Block 112, parcel numbers 21 and 11, APN # 401-112-011 and 401-112-021.*	B. Date Received by Harbor District
	C. Date Accepted for filing by BOC
	D. Date of Public Notice
	E. Date of Acceptance EIR or Negative Declaration
	F. Date of Public Notice
3) Name, Address and Telephone No. of Person to be contacted concerning this Project *Robert M. Smith* *Plauché & Carr LLP* *811 First Avenue, Suite 630* *Seattle, WA 98104* *(206) 436-0615* *robert@plauchecarr.com*	G. Date of Public Hearings
	H. Date of Approval Disapproval _____ Conditional _____ Approval _____
4) Attach list of names and addresses of all adjoining property owners: *See Exhibit A*	

5) List and Describe any other related Permits & Other Public Approvals required for this Project, including those required by City, Regional, State & Federal Agencies. *See Exhibit B*	I. Expiration Date
6) Existing Zoning District: MC/A	Comments
7) Proposed Use of Site (Title of Project for which this form is filed): *Installation of saltwater intake and discharge pipes along an existing pier facility at the Humboldt Bay Harbor, Recreation and Conservation District's Berth 2 Facility to support Coast Seafoods Company's Berth 2 Facility Mariculture Project (the "Project"). See Exhibit C.*	

Describe in detail the proposed project:

Answer all questions completely on a separate sheet of paper. If the question does not apply to your project, so indicate by marking N.A. If you have questions, please contact the Harbor District Office.

Project Details

8. Site Size

The site will consist of portions of Parcels 401-112-011 and 401-112-021 and associated uplands, as shown in Exhibit D. Parcels 401-112-021 and 401-112-011 are approximately 65.5 and 15.7 acres, respectively. The Project's use of tideland Parcel 401-112-011 will be limited to an easement for use of the Humboldt Bay Harbor, Recreation and Conservation District's ("Harbor District") existing dock facility for the purpose of operating intake and discharge pipes, as shown in Exhibit D; the existing dock and associated easement extends into parcel 401-112-021. The project will also utilize upland warehouse and parking facilities on Parcel 401-112-021.

9. Square Footage

N.A.

10. Number of floors of construction

The only construction will be to install saltwater intake and discharge pipes along the existing dock and pier structures.

11. Amount of off-street parking provided

N.A.

12. Attach plans

See Exhibit D.

13. Proposed scheduling

Scheduling is dependent on permitting requirements and the time necessary to obtain permits. However, the saltwater intake and discharge pipes will be installed as soon as practicable following approval of all necessary permits.

14. Associated projects

The intake and discharge piping is associated with Coast Seafoods Company ("Coast")'s proposed shellfish hatchery, to be located in an existing warehouse owned by the Harbor District on the upland portion of Parcel 401-112-021. Seed grown in the hatchery will be placed in floating upweller systems for further grow-out, which would be located on subtidal parcels leased from the Harbor District as part of its Mariculture Pre-Permitting Project.

15. Anticipated incremental development

N.A.

16. If residential, include the number of units, schedule of unit sizes, range of sale prices or rents, and type of household size expected.

N.A.

17. If commercial, indicate the type, whether neighborhood, city or regionally oriented, square footage of sales area, and loading facilities

N.A.

18. If industrial, indicate type, estimated employment per shift, and loading facilities.

N.A.

19. If institutional, indicate the major function, estimated employment per shift, estimated occupancy, loading facilities, and community benefits to be derived from the project.

N.A.

20. If the project involves a variance, conditional use or recognizing application, state this and indicate clearly why the application is required.

N.A.

Are the following items applicable to the project or its effects? Answer yes or no. Discuss all items answered yes.

21. Change in existing features of any bays, tidelands, beaches, lakes or hills, or substantial alteration of ground contours.

No.

22. Change in scenic views or vistas from existing residential areas or public lands or roads.

No.

23. Change in pattern, scale or character of general area of project.

No. The existing general area of the Project is industrial in nature and the proposed use would not alter the pattern, scale or character. Project activities will be consistent with the current setting and use of the upland parcel for shellfish aquaculture operations.

24. Significant amounts of solid waste or litter.

No.

25. Change in dust, ash, smoke, fumes or odors in vicinity.

No.

26. Change in ocean, bay, lake, stream or ground water quality or quantity, or alteration of existing drainage patterns.

No. Prior to being discharged back into the bay, water from the seed setting facility will be brought back to ambient bay water temperatures. Because bivalve larvae are filter feeders, water returned to the bay will typically be lower in organic matter and other detritus than the water taken into the facility. There are no anticipated negative impacts on surface or groundwater quality associated with the Project or alteration of existing drainage patterns.

27. Substantial change in existing noise or vibration levels in the vicinity.

A. During Construction

No.

B. During Project Utilization

No.

28. Site on filled land or on slope of 10% or more.

N.A.

29. Use of disposal or potentially hazardous materials, such as toxic substances, flammable or explosives.

No, the proposed saltwater intake and discharge pipes will not require the use of any toxic, flammable, explosive or otherwise hazardous materials.

30. Substantial change in demand for municipal services (police, fire, water, sewage, etc.).

No.

31. Substantially increase fossil fuel consumption (electricity, oil, natural gas, etc.).

No.

32. Relationship to larger project or series of projects.

The intake and discharge pipes are associated with Coast's hatchery facility, which will be used to grow shellfish seed to be cultivated on Coast's leased and owned tidelands in Humboldt Bay. Coast currently has an application under consideration with the Harbor District to permit an additional 622 acres of farmed area. Seed grown in the hatchery will be placed in floating upweller systems for further grow-out, which would be located on subtidal parcels leased from the Harbor District as part of its Mariculture Pre-Permitting Project.

ENVIRONMENTAL SETTING:

33. Describe the project site as it exists before the project including information on topography, soil stability, plants and animals, and any cultural, historical, or scenic aspects. Describe any existing structures on the site and the use of the structures. Attach photographs of the site. Snapshots or polaroid photos will be accepted.

The Project is located 1 TCF Drive, Samoa, California. The property is owned by the Harbor District and is located north of the Eureka Municipal Airport near Samoa, on the west side of the entrance channel of Arcata Bay. The site was formerly an upland pulp mill facility.

There is an existing pier on the site that extends approximately 636 feet from shore with a typical width of 25 feet (see Exhibit D). The dock has a T-Shape with the waterward edge consisting of several dolphins connected by a wooden walkway. The dock also has a finger pier extending northward by about 300 feet and located approximately 370 feet from shore. Industrial piping is currently attached to the

structure and pier, including piping for saltwater intake and discharge associated with Taylor Mariculture, LLC's ("Taylor") existing mariculture operation on-site.

The shoreline adjacent to the pier consists of riprap armoring with limited to no native riparian vegetation present. There are two thin bands of eelgrass between the existing finger pier and the shoreline. See Exhibit C.

34. **Describe the surrounding properties, including information on plants and animals and any cultural, historical, or scenic aspects. Indicate the type of land use (residential, commercial, etc.) intensity of land use (one-family, apartment houses, shops, department stores, etc.) and the scale of development (height, frontage, set-back, rear yard, etc.) Attach photographs of the vicinity. Snapshots or polaroid photos will be accepted.**

The warehouse owned by the Harbor District on Parcel 401-112-021 is currently used by Taylor for shellfish aquaculture activities similar to those being proposed by Coast. The other properties surrounding the Project site are vacant industrial properties. There is a vacant paper mill to the Project's immediate west. The properties to the northwest and southwest are vacant industrial parcels. Humboldt Bay lies to the North, East and South of the Project. Plants in the upland consist primarily of invasive species and non-native grasses. There are no known historic and cultural resources. Photos of the site are attached as Exhibit E.

----------**Questions 35; 36 and 39 MUST BE ANSWERED!**----------

35. **How will the proposed use or activity promote the public health, safety, comfort, and convenience?**

The Harbor District's Humboldt Bay General Plan supports and promotes the development of mariculture facilities such as the Project.[1] The State of California similarly encourages mariculture as a coastal-dependent use that should be promoted to augment food supply.[2] The Project is consistent with these state and local policies; it will promote public health, safety, comfort and convenience by growing the local mariculture industry, which is an important and growing part of the local economy. The Project is expected to provide additional living-wage local jobs and is necessary for Coast's lease in the Harbor District's warehouse facility, which will contribute a stable source of revenue to the Harbor District through lease payments. In addition, the Project will benefit Coast and the local mariculture industry. The hatchery will address Coast's need for a reliable source of healthy juvenile shellfish seed, depending upon future market demand. Coast requires an inventory of juvenile seed at specific times throughout the calendar year to ensure a steady supply of future marketable-size shellfish for distribution and sale. Currently, Coast does not operate a shellfish hatchery in the Humboldt Bay region. The closest Coast-operated hatchery is located in Washington State. The proposed shellfish hatchery will provide Coast with a local

[1] HFA-3 provides for the protection and designation of shoreside aquaculture facilities and activities. HFA-5 requires the Harbor District to identify additional aquaculture opportunities in Humboldt Bay.
[2] *See* Section 30411(c) of the California Coastal Act.

reliable source of seed that will be used for its operations and as a possible seed source for other shellfish growers.

36. How is the requested grant, permit, franchise, lease, right, or privilege required by the public convenience and necessity?

The Project is required by both the public convenience and necessity, consistent with the Harbor District's enabling legislation. First, the Project is reasonably required to promote the growth of the mariculture industry in Humboldt Bay. Specifically, the Project is necessary for Coast to utilize its lease of a portion of the Harbor District's warehouse facility, given that Coast's proposed hatchery operation requires a continuous supply of clean seawater to grow shellfish seed, which will be utilized through a flow-through system prior to being discharged back into Humboldt Bay.

The proposed saltwater intake and discharges pipes will be constructed on an existing pier facility that already accommodates industrial piping, including for the Taylor mariculture project on-site. Installing additional intake and discharge pipes constitutes a minor alteration to the existing dock and pier facilities and is an efficient use of existing structures and facilities. The only natural resource proposed for utilization is water from Humboldt Bay, which will be piped into the upland facility via the proposed saltwater intake and discharge pipes. In Phase II of the Project, Coast plans to build an upland algae growing facility to supply food to the shellfish; nutrients may be added to the water used in the algae growing facility. Trace amounts of added nutrients that are not consumed by the algae and small amounts of algae that is not consumed by the shellfish may be present in discharge water. However, because bivalve larvae are filter feeders, the water being discharged often contains lower amounts of organic material and other detritus than when the water is taken into the facility.

37. Financial statement:

A. Estimated cost of the project.

The estimated cost of Phase I of the project, including installation of the saltwater intake and discharge pipes, is $150,000.

B. How will the project be financed.

The project will be financed directly by Coast's parent company, Pacific Seafood Group.

38. Describe fully directions necessary to arrive at project site.

The site is accessed through the town of Samoa off of the Samoa Highway. Take exit 255 from Eureka, across the Highway 255 Samoa Bridge. From the Samoa Bridge, proceed south on the Samoa Highway approximately 1.5 miles and turn left (east) onto Samoa Pulp Lane. Turn right onto TCF Drive and proceed approximately 0.3 miles to the Freshwater Tissue security gate. From the security gate, turn left and proceed approximately 0.2 miles to the parking area at the foot of the existing pier.

39. Will the Applicant agree that as a condition of the permit being issued

subject matter of this application and permit, including, but not limited to, attorney's fees, costs of suit, and costs of administrative records obtained by or awarded to third parties pursuant to the California Code of Civil Procedure Section 1021.5 or any other applicable local, state, or federal laws, whether such attorneys' fees, costs of suit, and costs of administrative records are direct or indirect, or incurred in the compromise, attempted compromise, trial, appeal, or arbitration of claims for attorneys' fees and costs of administrative records in connection with the subject matter of this application and permit?

Yes.

NOTE

The District hereby advises the Applicant that, under California Public Resources Code Section 21089, the District when a lead agency under the Environmental Quality Act of 1970, as amended, pertaining to an Environmental Impact Report (EIR) or a Negative Declaration may charge and collect from the Applicant a reasonable fee in order to recover the estimated costs incurred by the District in preparing an Environmental Impact Report (EIR) or Negative Declaration for the project and the procedures necessary to comply with the provisions of the public resources code on the Applicant's project. In the event your project contains an analysis of issues pertaining to the Environmental Quality Act of 1970, as amended, for which District staff is not competent to independently review, or District requires the same in preparation of an Environmental Impact Report (EIR) or Negative Declaration for the project, the District may retain a reviewing consultant to evaluate the content of the Administrative-Draft EIR and Final EIR or Negative Declaration with respect to these issues. The cost of such reviewing consultant services shall be borne by the Applicant.

CERTIFICATION: I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Dated: 11/12/15

For Land Solutions

Coast Seafoods Company Harbor, Recreation and Conservation District Application

LIST OF EXHIBITS

	Name of Application Attachments
A	List of Adjoining Property Owners
B	Related Permits and Other Public Approvals
C	Project Description
D	Site Plan
E	Site Photographs

Exhibit A: List of Adjoining Property Owners

Parcel Number	Owner	Address
40112205	Freshwater Tissue Company, Samoa Pulp Mill	Box 248 Samoa, CA 95564
40112204	Freshwater Tissue Company, Samoa Pulp Mill	Box 248 Samoa, CA 95564
40111217	Freshwater Tissue Company, Samoa Pulp Mill	Box 248 Samoa, CA 95564
40111212	Humboldt Bay Harbor, Recreation and Conservation District	PO Box 1030 Arcata, CA 95502

Exhibit B: Related Permits and Other Public Approvals

Permit or Approval	Responsible Agency
Coastal Development Permit	California Coastal Commission
Rivers and Harbors Act Section 10 Permit	United States Army Corps of Engineers
Waiver of Waste Discharge	North Coast Regional Water Quality Control Board

Coast Seafoods Company: Berth 2 Facility Mariculture Project
Description of Proposed Intake and Discharge

Coast Seafoods Company (Coast) proposes to construct and operate a saltwater shellfish hatchery ("Project") on upland portions of the former Freshwater Tissue pulp mill site known as Berth 2; Coast is leasing the site from the Humboldt Bay Harbor, Recreation and Conservation District (Harbor District or District). In order to supply the hatchery facility with seawater, Coast is also proposing to install saltwater intake and discharge piping along an existing on-site dock and pier structure, as described below. Taylor Mariculture LLC (Taylor) already operates an upland shellfish hatchery on the same site.

1. Existing Uses On-Site

The Project is located in Humboldt County, California. The upland portion of the Project would be primarily located in an existing, 131,650 square foot warehouse owned by the District. Taylor's mariculture operation is located in approximately 6,500 square feet of the same warehouse; Taylor's operation will be immediately south of Coast's proposed hatchery facilities. The project site and surrounding uses are characterized by industrial uses associated with the former pulp mill.

The Project site also consists of the existing Redwood Terminal Berth 2 pier facility (RWT2) formerly associated with a pulp mill. The on-site pier is located northeast of the Eureka Municipal Airport near Samoa and is situated on the west side of the entrance channel of Arcata Bay. The typical width of the dock is 25 ft. The dock also has a finger pier extending northward about 300 feet located approximately 370 feet from shore. Taylor's operation includes nine floating upweller system rafts and three nursery rafts attached to the finger pier. Taylor also operates intake piping that brings water from Humboldt Bay for use in their upland hatchery operation and discharge piping that discharges water back to the Bay. A wastewater discharge pipe also runs from the warehouse to an existing leach field and septic system used by Taylor and the District southwest of the warehouse facility.

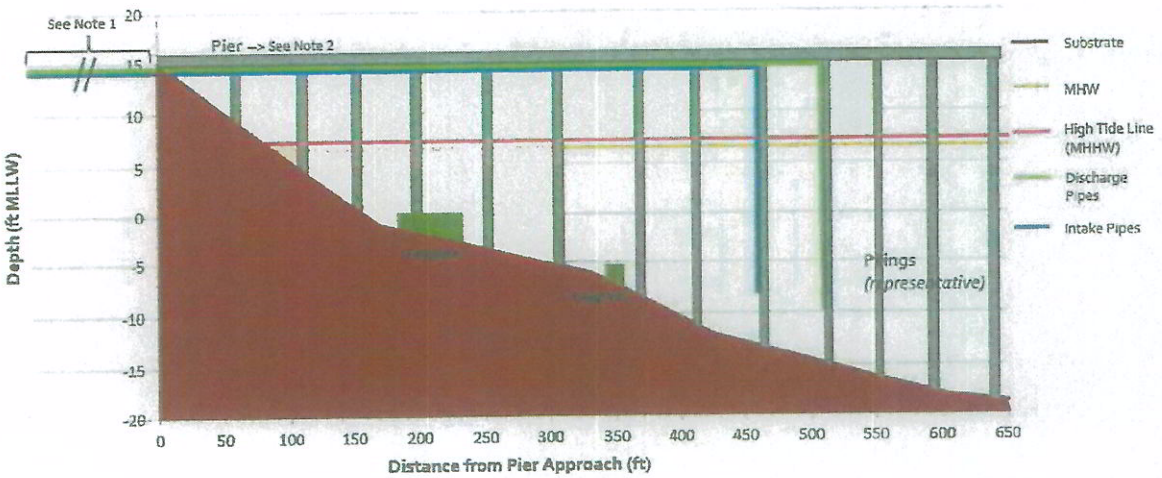
2. Description of Saltwater Intake and Discharge System

Salt water would be piped from the bay by four, 6-inch intake pipes. Two, 20 horsepower (hp), variable-speed electric pumps, capable of pumping up to 300 gpm each at any one time, would provide seawater to Coast's upland hatchery facility. Noise generated by the pumps is expected to be below background levels in the industrial area. The intakes will be enclosed by stainless steel screens that have been designed according to NMFS and California Department of Fish and Wildlife (CDFW) fish screening standards to be protective of fish life.[1] The pumps and intakes would

[1] According to the California Department of Fish and Wildlife, the current screening standard is as follows: (a) round or square openings of no more than 3/32 inches or slotted/wedge wire openings of no more than 1.75 millimeters, a screen area of at least 5 square feet per cubic foot per second water volume intake, a minimum open area of 27%, and a maximum intake water approach velocity of 0.2 per second if a self-cleaning device is installed that clears the entire screen face at least once every five minutes; or (b) round or square openings of no more than 3/32 inches or slotted/wedge wire openings of no more than 1.75 millimeters, a screen area of at least 20 square feet

operate alternately, with the non-operating equipment serving as backup. The water would be discharged via two 6-inch pipes back into the bay.

Intake and discharge ends of the pipes will be submerged at all times (Figure 1). Intake pipes will be placed approximately six feet above the seafloor and discharge pipes approximately five feet above the seafloor. Intake and discharge pipes will be separated by approximately 50 feet, with the total length of the intake pipes at 825 feet and the total length of the discharge pipes at 875 feet (distance measured from the upland warehouse). Intake and discharge pipes will be installed under the existing gravel roadway that runs between the warehouse and the dock and attached underneath the dock. The piping will be run down to the water along one of the dock's existing support pilings.



Notes:
1. Pipes contain a bend and continue under the road for approximately 365 ft to the building (See Plan View).
2. Pier height was estimated based on site photographs.
3. MHW and MHHW of Samoa, CA based on Tidal Information table on NOAA chart 18622. Bathymetry information from NOAA chart 18622.
4. Eelgrass location information provided by the Harbor District (See Appendix A)

Figure 1. Cross-section depiction of existing pier and proposed intake and discharge pipes.

Coast proposes to construct the upland hatchery facility in two phases. The maximum average daily amount of water intake and discharge from/to Humboldt Bay during Phase I will be approximately 76,000 gallons per day. Phase II intake and discharges would be processed using the same pipes as Phase I uses. The maximum cumulative average daily amount of water discharged to Humboldt Bay from both Phase I and Phase II operations will be approximately 1,025,100 gallons per day, which will typically occur between March through November. Table 1, below, summarizes the approximate water use of the upland systems.

per cubic foot per second water volume intake, a minimum open area of 27%, and a maximum water approach velocity of 0.05 feet per second if a self-cleaning device is not installed.

Table1. Summary of System Water Use

System	Water Source	Water Use	Discharge Location
Seed Setting Facility (Phase I)	Bay	75,000 gallons/day (up to 200 gpm)	Bay
Broodstock and Larvae (Phase II)	Bay	900,000 gallons/day (up to 600 gpm)	Bay
Microalgae Greenhouse (Phase II)	Bay	50,000 gallons/day (up to 200 gpm)	Bay
Total Max. Intake/Discharge from/to Bay	**1,025,000 gallons/day**		

Because shellfish are filter feeders, the water that will be discharged back to Humboldt Bay will typically contain lower amounts of organic material and other detritus than the water taken into the upland facility. Water drawn from the Bay may be heated to between 74 and 76 degrees Fahrenheit prior to use. Discharge water will be run through a heat exchanger to be cooled before discharge and will be no more than 1 to 1.5 degrees Celsius above ambient Bay water temperatures when returned to the Bay. Discharge water may also contain trace amounts of algae from Coast's proposed microalgae greenhouse facility, which will be constructed in Phase II of the project. Species of microalgae cultivated will include *Thalassiosira pseudonana, Skeletonema menzellii, Isochrysis spp., Pavlova lutheri,* and *Tetraselmis spp.* Algae will be grown in a static system and used as feed for the shellfish larvae and broodstock. Nutrients will be added to the algae to assist with growth and will be consumed by the algae before the algae is fed to the shellfish larvae and broodstock. Finally, while small amounts of bleach (sodium hypochlorite) may occasionally be used to disinfect the broodstock and larvae facility, any wash water discharged back to the Bay will be pH neutralized using sodium thiosulfate per industry standards.

FIGURE 1
Coast Seafoods Upland Hatchery

Upland Hatchery Facility
Humboldt Bay, CA
For Coast Seafoods

Prepared on:08/07/2015
Prepared by: Lauren Odle
Map/Data Source: ESRI, Humboldt County

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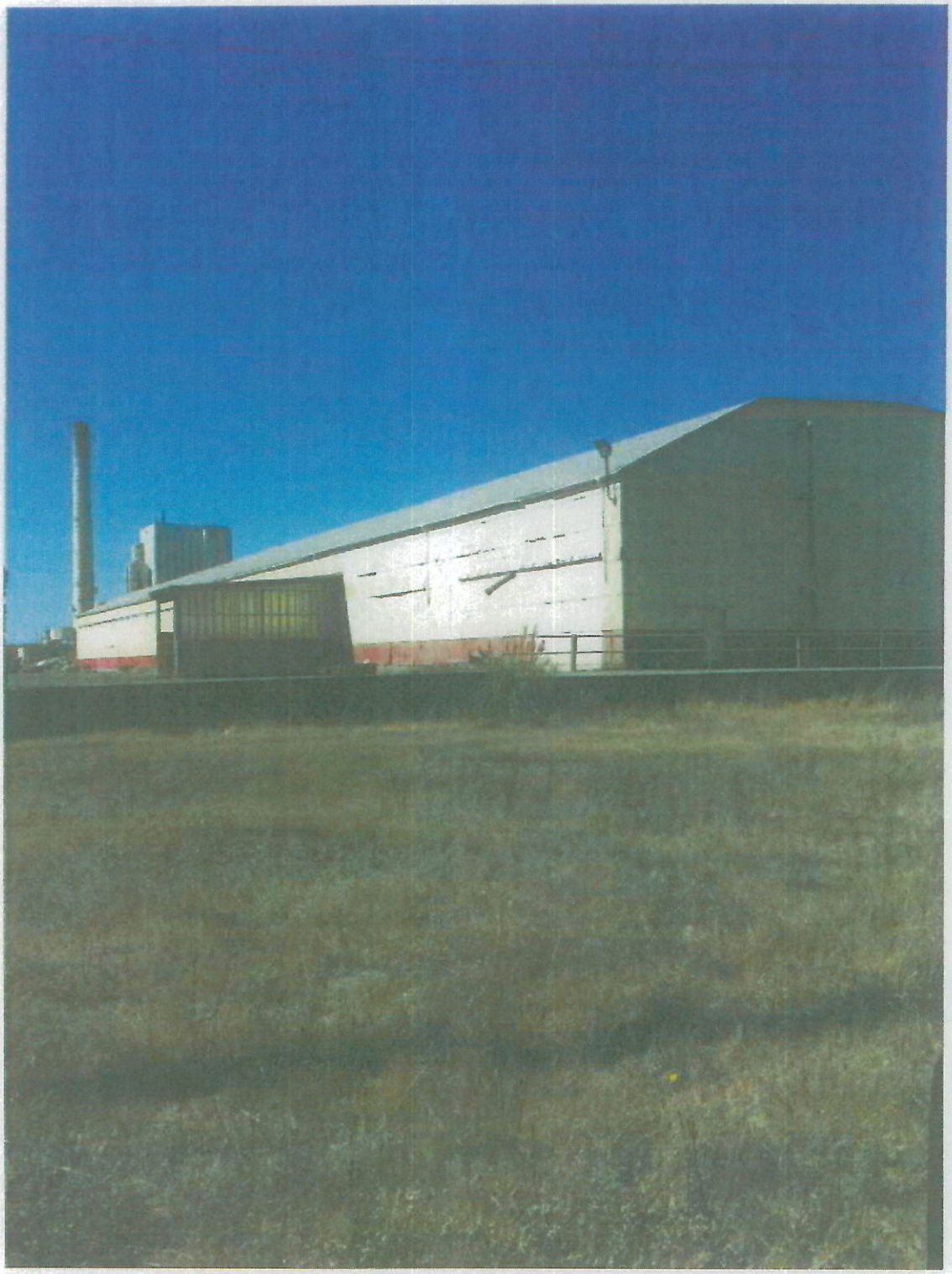
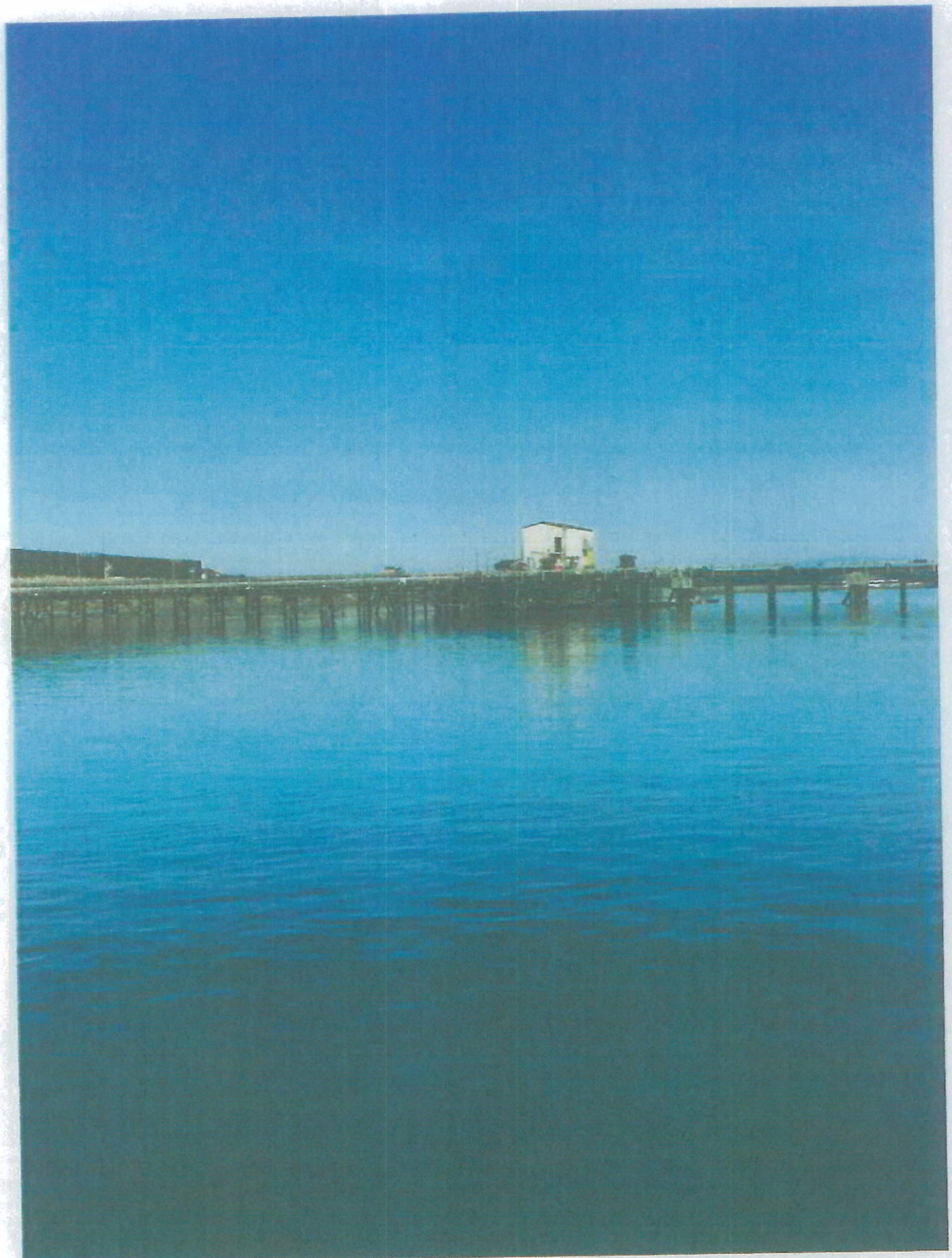
CONFLUENCE
ENVIRONMENTAL COMPANY

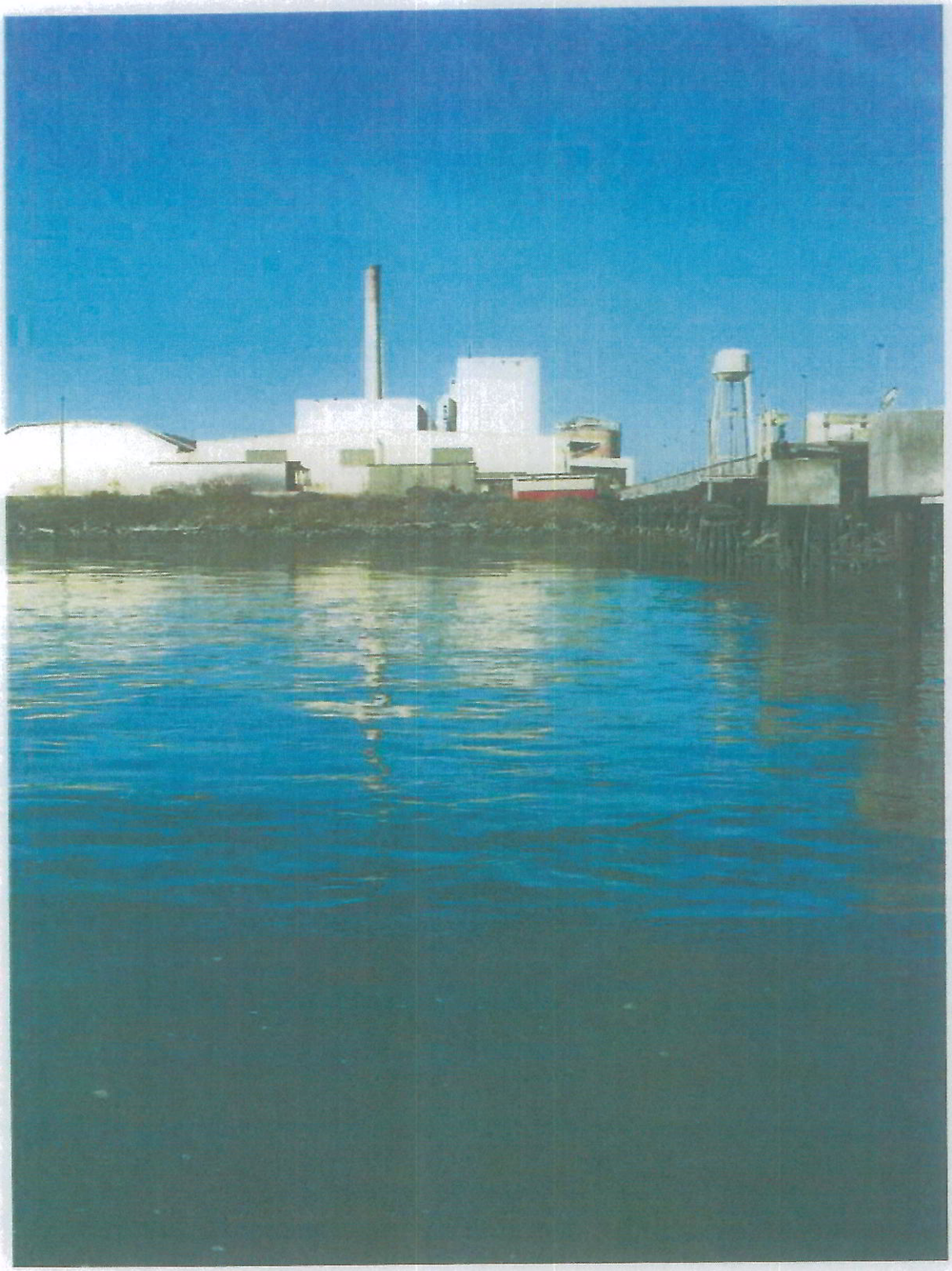
Photograph of existing on-site dock and pier facility.
Photograph taken from on-shore terminus of the existing pier, facing east.



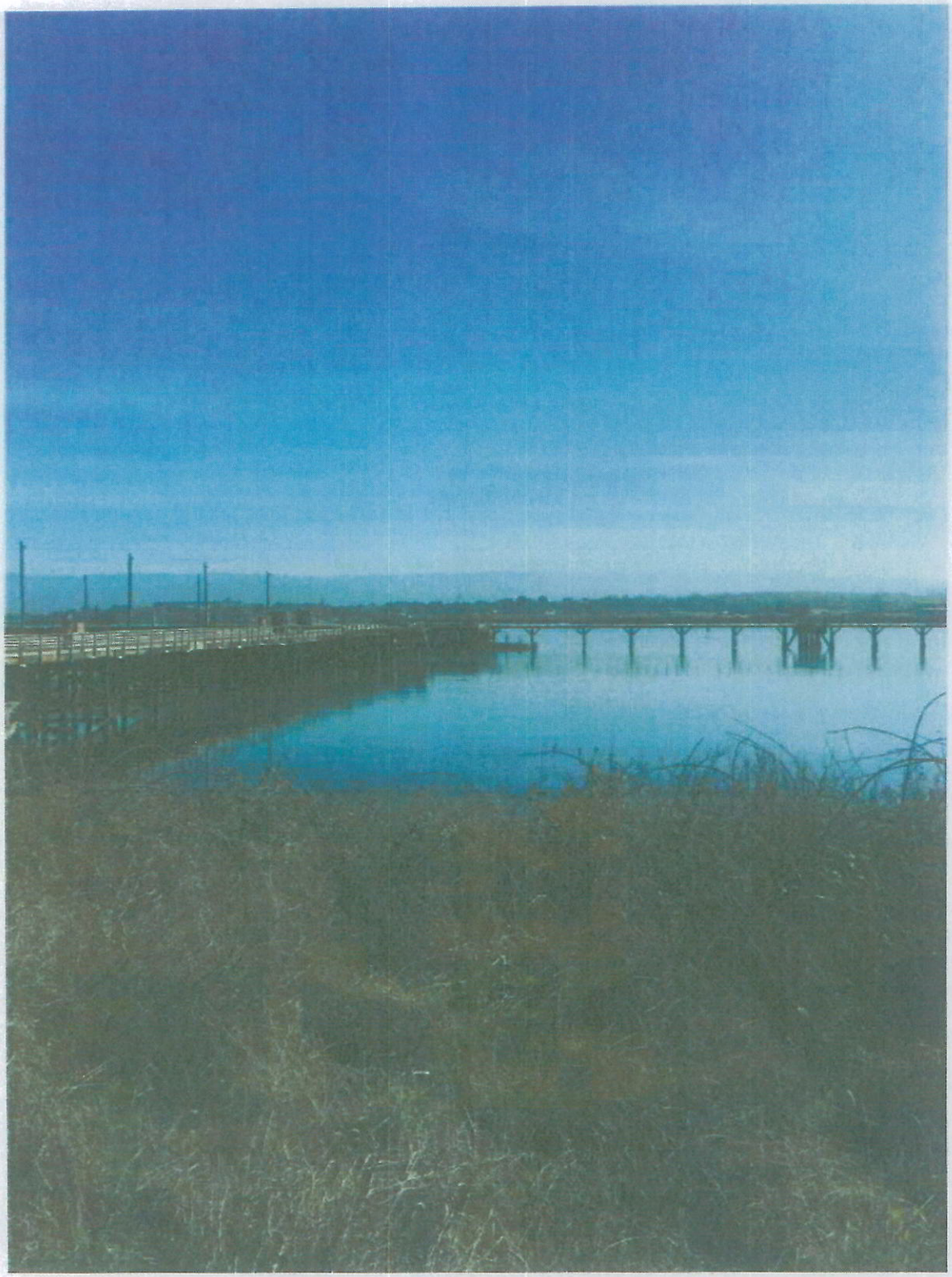
Photograph of existing on-site warehouse facility.
Photograph taken from the southeast corner of the existing warehouse.



Photograph of existing on-site dock and pier facility.
Photograph taken the southwestern side of the dock, facing north.



Photograph of existing on-site dock and warehouse.
Photograph depicts view from the end of the existing dock, facing west towards on-site warehouse.



Photograph of existing on-site dock and pier facility.
Photograph taken from on-shore terminus of the existing pier, facing east.