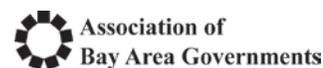




San Francisco Bay Area Water Trail
 Site Description for
Redwood City Municipal Marina



Location, Ownership, and Management: The Redwood City Municipal Marina is located at the end of Chesapeake Drive, in the southwestern portion of the Port of Redwood City. The site is owned and managed by the Port of Redwood City and is the main public launch site within the Port.

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Docks and ramp	Low-freeboard dock	Calm morning water

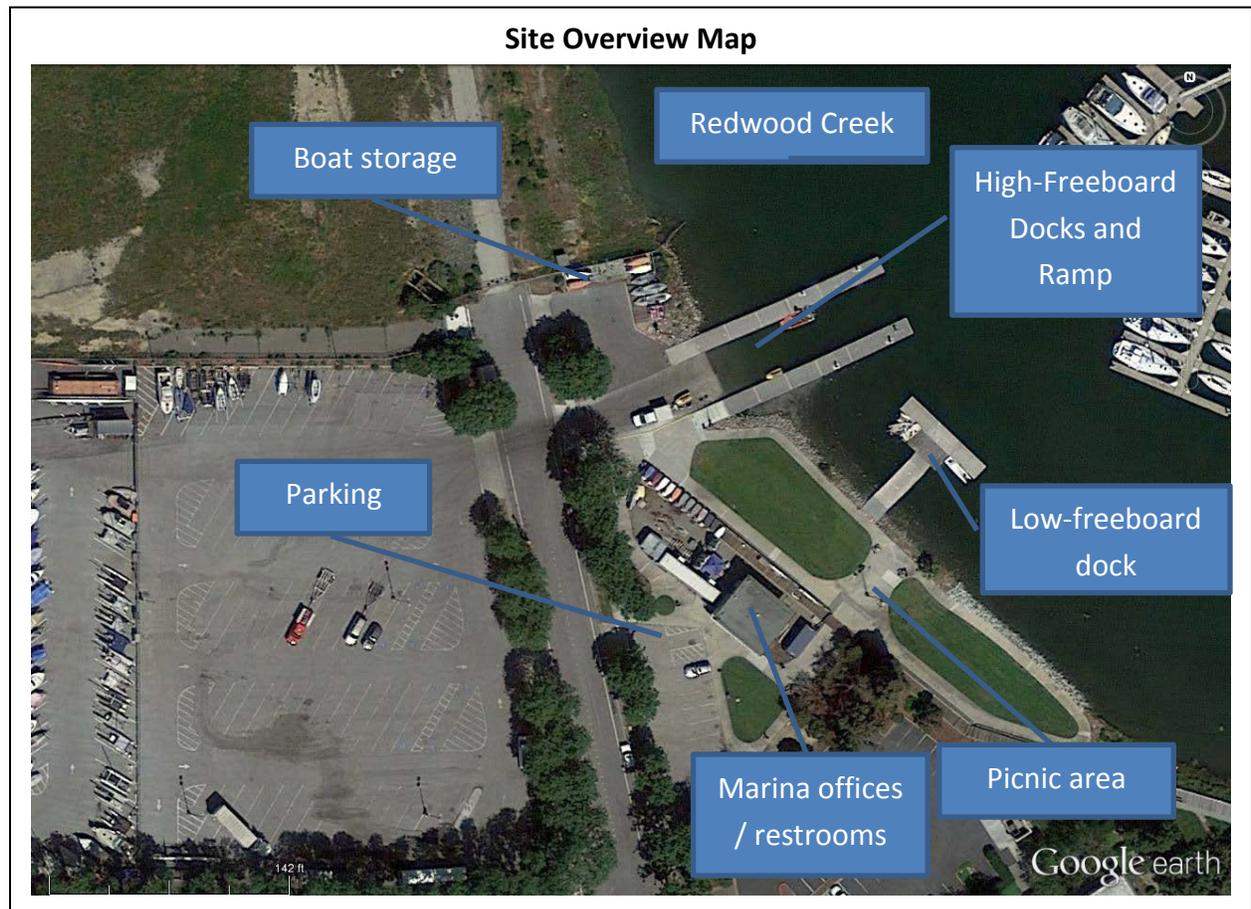
Facility Description: Boat launch facilities consist of a corrugated cement boat ramp with two high-freeboard docks located on the sides of the ramp. The high-freeboard docks are made of composite and are in good condition. In addition to the high-freeboard docks and ramps, there is an adjacent low-freeboard dock. The low-freeboard dock is accessed by a non-ADA boarding dock and consists of both wood and composite. The dock is often partially blocked by bollards.

The Redwood City Municipal Marina is designed primarily for trailered boats, but is used by many different boat types. Non-motorized small boats observed at the site include kayaks, rowboats, paddle boards, outriggers, and canoes. Other boat types include powerboats, sailboats, and small boats with outboard motors. Although the launch facilities are oriented towards trailered boats, the site provides a variety of amenities that make the site a good launch for non-motorized small boats. A picnic area is located adjacent to the marina offices. The area contains four picnic tables, set among a grass lawn and trees. Trash cans and recycling bins are provided at the picnic area and outside the restrooms. The ADA-accessible restrooms are located approximately 96 feet east of the ramps, connected by an ADA accessible path of travel.

Free parking is available in a large lot north of the site. Parking for boat trailers is allowed for up to 72 consecutive hours. The parking area has five ADA spaces.

Other Identifying or General Information:

<p>Site ID: <u>SM4</u> In WT Plan: <u>Yes</u> Existing or Planned: <u>Existing</u> Ownership: <u>Public</u> County: <u>San Mateo</u> Geo-Region: <u>Peninsula and South Bay</u> SF Bay Plan Region: <u>Central Bay South</u> Launch or Destination: <u>Launch</u> Home of a Club: <u>Yes</u> Used by a Program that Assists Persons with Disabilities: <u>No</u> Appreciated for Windy Conditions: <u>No</u> Near Food or Drink: <u>No</u></p>	<p>Proximity to Other Sites: This site is located in close proximity to the Bair Island Aquatic Center, which is located approximately 1.3 miles south along Redwood Creek. An informal launch at Ravenswood Open Space is located approximately 5 miles south.</p> <p>To the north, the nearest site is Beaches on the Bay (A1), which provides a beach launch approximately 6 miles away. Across the Bay, Eden Landing is located approximately 8 miles northeast and Jarvis Landing is located approximately 8.5 miles southeast.</p>
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Description of Launch/Landing:

<p>Fixed Dock/Pier Launch/Landing: <u>Yes</u> Float: <u>Yes</u> Freeboard Level: <u>High (9" and above) and Low (9" and below)</u> Transfer/Launch Assistance System: <u>No</u> Gangway: <u>No</u> Boat/Trailer Ramp: <u>Yes</u> Mudflats Affect Site Usability: <u>No</u> Beach Wheelchair Available: <u>No</u> Stair Water Entry: <u>No</u> Beach: <u>No</u></p>	<p>Firm-Surface Beach Crossing: <u>No</u> Fee for Launch or Parking: <u>Yes</u> Other Launch/Landing Notes: There is a low freeboard floating dock located near the harbor master building. It is 206 feet away from parking area (or 301 feet from ADA parking). Restrictions: Fee (currently \$5) for launch of trailored boats. No fee for hand-carried crafts. Water Entry Path: <u>No</u></p>
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Site Appears to be Suitable For:

<p>Kayak: <u>Yes</u> Windsurfer: <u>No</u> Kiteboard: <u>No</u> Whaleboat: <u>No</u> Stand Up Paddleboard: <u>Yes</u></p>	<p>Canoe: <u>Yes</u> Outrigger Canoe: <u>Yes</u> Sculling: <u>Yes</u> Rowboat/Dinghy: <u>Yes</u> Dragonboat: <u>No</u></p>
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The Redwood City Municipal Marina is used by both motorized and non-motorized boaters, providing access to Redwood Creek, the sloughs of Bair Island, and the open waters of the Bay.

Transportation and Parking:

<p>General Spaces (number): <u>75</u> ADA Parking Spaces (number): <u>5</u></p> <p>ADA Parking Description: There are two lots. The one near the Harbormaster has 15 spots with 1 ADA spot. The lot across the street has approximately 60 spots with 4 ADA spots. Street parking is also available.</p> <p>Duration (hours): <u>24</u> Overnight Parking Possibly Allowed: <u>Yes</u></p>	<p>Overnight Parking Description: Parking for boat trailers is allowed for up to 72 consecutive hours.</p> <p>Loading/Unloading Area: <u>Yes</u></p> <p>Bay Trail: <u>Yes</u></p> <p>Public Transportation: There is no bus line or other public transit that service the Port of Redwood City.</p>
 <p><i>A large parking lot for vehicles with trailers is located across Chesapeake Drive.</i></p>	 <p><i>A smaller parking lot is located next to the marina offices. All parking is free.</i></p>

Path of Travel:

<p>Distance to Launch from Parking Area (feet): <u>182</u> Distance to Launch from ADA Parking (feet): <u>182</u> Distance to Launch from ADA Restrooms (feet): <u>190</u> Distance from ADA Restrooms to ADA Parking (feet): <u>22</u> Path of Travel Exists: <u>Yes</u></p> <p>Path of Travel Description: Concrete pathway to the boat ramp from the parking area.</p>

Other Site Amenities:

<p>Total Restrooms: <u>2</u> Total ADA Restrooms: <u>2</u> Restroom Description: One male and one female with flush toilets.</p> <p>Boat Washing: <u>Yes</u> Rigging/Staging Area: <u>Yes</u> Picnic Tables: <u>Yes</u> Benches: <u>Yes</u> BBQ: <u>No</u> Boat Storage: <u>Yes</u></p>	<p>Boat Storage Description: A public boat storage facility is located at the west end of the parking area, approximately 350 feet from the launch.</p> <p>The storage is managed by the Sequoia Yacht Club. The area is lighted and provides boat storage behind a locked gate. Currently there are 16 spaces for kayak storage, but space could be increased if there is more demand. Storage is \$12.50 per month.</p>
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Non-motorized small boat storage is located at the west end of the paved parking lot area adjacent to the public boat launch ramp. Boat storage adjacent to the ramp is for local clubs.

Overnight Accommodations:

Hotel: <u>No</u>	Hostel: <u>No</u>	Ship: <u>No</u>	Camping: <u>No</u>	Other: <u>No</u>
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Additional Notes Related to Accessibility:

The primary areas for water entry are from the boat ramp or high-freeboard dock and there are no transition plates from the abutment to the dock. The docks are made of composite and are in good condition.

In addition to the high-freeboard docks and ramps, there is an adjacent dock that connects to a low-freeboard dock. This dock appears to exceed ADA slope standards.

The shoreside facilities offer a path of travel, sidewalks, restroom, and parking that all appear to be ADA accessible and well maintained.

Safety and Security, including Parking:

Large ships regularly enter the mouth of Redwood Creek to docks within the Port of Redwood City, located approximately 0.75 miles east of the Marina. Redwood Creek is an active commercial shipping channel, so boaters need to be cautious to avoid the barges and other large ships that frequent the area. Boaters should be reminded that ships need a lot of room to maneuver and long distances to stop. Propeller wash can cause dangerous, unstable conditions, even at a distance. If boaters are in the channel when ships are operating, they need to give ships the right of way and a wide berth.

Hunting is allowed within Bair Island during designated hunting seasons (Oct – Jan). The Water Trail educational sign would include warnings about seasonal hunting in the Bay and includes the State Fish and Wildlife website for specific information.

There are some car break-ins and vandalism at the site. Other issues include minor graffiti, illegal dumping, and stolen property. If a boater gets stranded or there is an on-water emergency, the US Coast Guard, San Mateo County Sheriff, and/or San Mateo County Fire Department can be called.



The Redwood Creek channel is sufficiently wide that if non-motorized small boaters keep to the northwest side of the channel then there is plenty of space to avoid passing ships.

Wildlife and Habitat Considerations:

Bair Island is composed of three islands: Inner, Middle and Outer, totaling approximately 3,000 acres of former salt ponds. A large portion of the islands have been restored to tidal wetlands. Bair Island is divided into three parts, with Outer Bair Island along the Bay shoreline separated from Middle Bair Island by Corkscrew Slough and Middle Bair separated from Inner Bair Island by Smith Slough. Bair Island State Marine Park prohibits boating and everyone is prohibited from entering marsh areas between February 15 and May 20. However, this prohibition only refers to the marsh areas, which are typically not navigable by boaters. Corkscrew Slough, Redwood Creek, and the major waterways around the marsh islands are not prohibitive to boating.

Sensitive species known to occur within Bair Island include Ridgway's rail, black rail, salt marsh harvest mouse, and harbor seals. In particular, there are several harbor seal pupping areas within Bair Island, including one along Corkscrew Slough, an approximately two mile paddle from the launch. Signage should emphasize the importance of boaters keeping their distance from wildlife, not entering small sloughs or channels, and not landing on marshes or levees, particularly during pupping season.

Education, Outreach, and Stewardship, Including Signage:

When salt production ended in 1965, CDFW purchased part of Outer Bair, and much of the rest of the property was sold for potential development. After several attempts at development were turned down by voters in Redwood City, the Peninsula Open Space Trust (POST), with assistance from private foundations, was able to purchase much of the remaining acres of Bair Island. This property was then transferred to CDFW and the Refuge in the late 1990s (USFWS Don Edwards CCP).

The Bay Trail project is currently working with USFWS to create an App-based audio tour describing the natural and human history of Bair Island. Segments of Bay Trail on Bair Island also include interpretive displays and signage.

Additional Notes on Use of Site (Boating and Non-Boating) and Existing and Planned Management:

The marina is used primarily for boat berthing and access to the Bay by both motorized and non-motorized boaters. Motorized uses primarily consist of personal fishing boats and small sailboats. The area is very popular with anglers. No swimming, bathing, or wading is allowed from the ramp.

Other Existing or Anticipated Water Trail-Related Issues and Opportunities:

Bair Island Aquatic Center is located near the Redwood City Municipal Marina. The site is home to a non-profit organization focused on human-powered water sports such as rowing, sculling, paddling, and dragon boating. The nearby Blu Harbor development is proposed to also include non-motorized small boat amenities.

Accessibility of Sites within the Peninsula / South Bay Geo-Region:

There are twelve potential/existing Water Trail sites identified within this geo-region: Oyster Point Marina; Colma Creek; Old Bayshore Highway; Coyote Point Recreation Area; Coyote Point Marina; Seal Point Park; Baywinds Park; Beaches on the Bay; Redwood City Municipal Marina; Docktown Marina; Palo Alto Baylands Sail Station; and, Alviso Marina County Park. Of these, the Redwood City Municipal Marina, Palo Alto Baylands Sail Station, and Alviso Marina County Park provide broadly accessible facilities.

The experiences that are available in the Peninsula / South Bay Geo-Region are a mixture of urban and more rural experiences in slough environments. There are several sites that offer a variety of accessible features. As mentioned above, the Redwood City Municipal Marina provides a low-freeboard dock, accessible parking, accessible restrooms, and a loading and unloading area. Palo Alto Baylands also provides a low-freeboard dock and ADA gangway and is scheduled for renovation by the City of Palo Alto to include ADA restrooms. Alviso Marina County Park has ADA high and low-freeboard docks, loading/unloading areas, and accessible parking.

**Summary of Environmental Review
based on the
San Francisco Bay Area Water Trail Plan Final Environmental Impact Report**

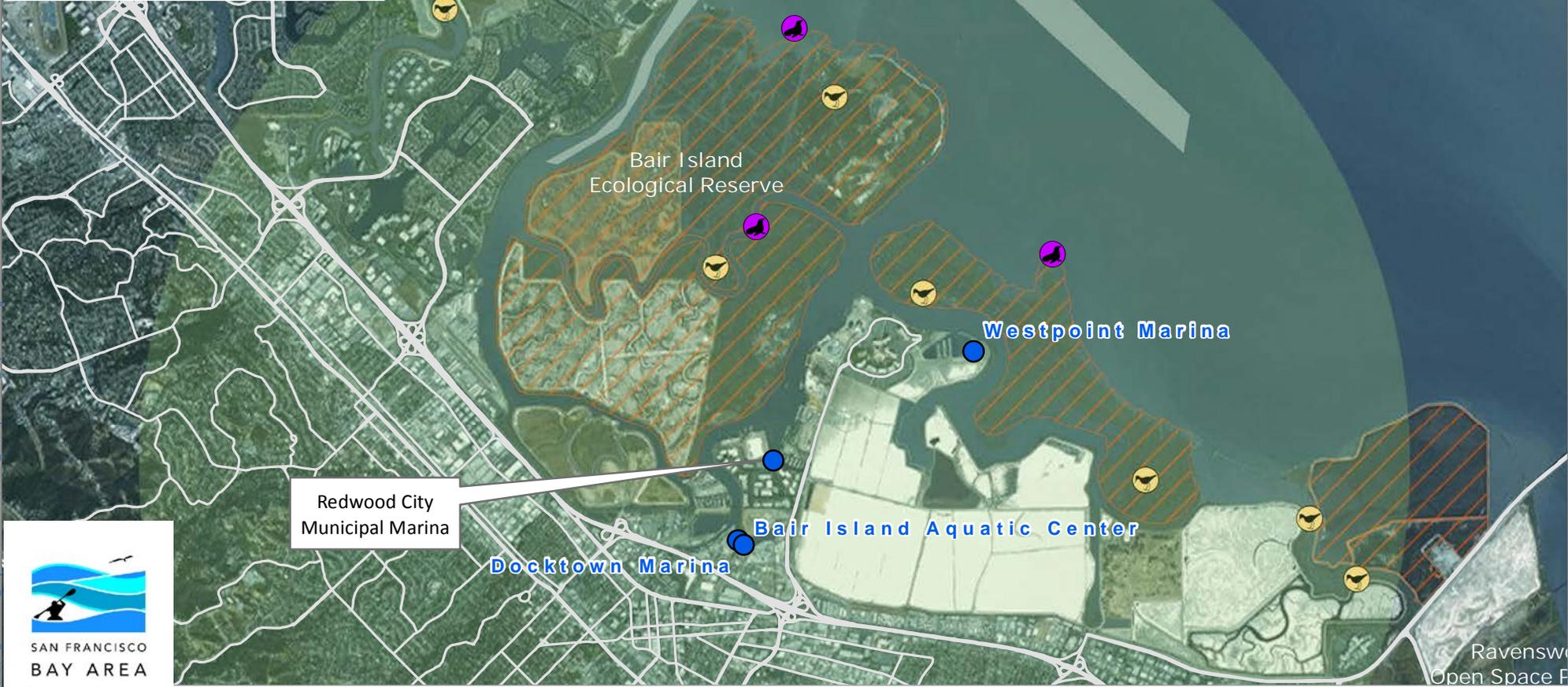
**Redwood City Municipal Marina
September 16, 2016**

Resource Area	Impacts Analysis	Notes
<p>Recreation References: WT DREIR, pp. 3-32 to 3-37.</p>	<p>Redwood City Municipal Marina has one boat ramp and two high freeboard docks, a low-freeboard dock, parking, restrooms, and a picnic area. Facilities are well maintained and have sufficient capacity to accommodate increased levels of use.</p> <p>Hunting is allowed in many of the marshes within four miles of the site. The site is also used by a variety of other boats including sailboats and powerboats.</p>	<p>Water Trail users may submit comments to Water Trail staff through the website if they witness or experience recreational conflict at any designated site. The Water Trail educational sign would include warnings about seasonal hunting in the Bay (Oct – Jan) and includes the State Fish and Wildlife website for specific information.</p>
<p>Navigational and Personal Safety References: WT DREIR pp. 3-38 to 3-51, and Figures 3.4.2-1 and 3.4.2-2.</p>	<p>Redwood City Municipal Marina is popular with motorized boaters. Small boat users should be aware of tides and currents and how to boat near other vessels on Redwood Creek, including the large vessels calling on the Port of Redwood City.</p> <p>Flow restrictors within the sloughs of Bair Island can also create navigation hazards during low tides and paddlers should use caution.</p>	<p>The Water Trail educational sign that would be installed provides safety information related to navigational and personal boating safety, including the shipping channel and turning basins in Redwood Creek.</p>

Resource Area	Impacts Analysis	Notes
<p>Aesthetics References: WT DREIR pp. 3-56 to 3-68.</p>	<p>Redwood City Municipal Marina is considered an urban/wildland interface site, characterized by the public boat launch with views of marshes across Redwood Creek. The Municipal Marina does not currently have sign boards except for parking restriction signs, a boaters' map, fishing information, and two place-name signs.</p>	<p>The Water Trail will require the inclusion of a Water Trail identification sign at the site as well as the educational sign. A "sign program" will be developed with the Port of Redwood City to ensure that the I.D. signs and educational signs do not result in sign clutter at the site.</p>
<p>Biology- Vegetation References: WT DREIR pp. 3-69 to 3-92 and Table 3.7.2-1 and Table 3.7.2-2.</p>	<p>Endangered and rare plant species have been found in Bair Island. Boaters currently explore Bair Island and the sloughs within it.</p>	<p>Preventing the inadvertent spread of exotic, invasive plant species is important at all launch sites. The WT educational sign and website ask WT users to help prevent the spread of invasive species by rinsing boats and equipment immediately after use and by not landing in marshes or on levees.</p>
<p>Biology – Birds <i>References: WT FEIR text and map</i></p>	<p>Black rail and Ridgway's rail are known to occur in the marshes throughout the year.</p>	<p>The WT educational sign includes information about how to paddle responsibly around wildlife and to avoid landing in the marsh or on levees. The WT website and brochure include more detailed information about not disturbing birds.</p>
<p>Biology – Rafting Waterfowl References: WT DREIR pp. 3-93 to 3-131 and Table 3.8.2-1, Figure 3.8.2-1.</p>	<p>This site provides access to areas where rafting waterfowl may congregate.</p>	<p>Avoiding disturbance of rafting waterfowl is addressed in the Water Trail educational sign, brochure, and website.</p>

Resource Area	Impacts Analysis	Notes
<p>Biology – Ridgway’s rail and California black rail and high tide refugia References: WT DREIR pp. 3-93 to 3-131 and Figure 3.8.2-2 Personal Communication with CDFW</p>	<p>Black rail and Ridgway’s rail are present within Bair Island.</p>	<p>Signage is needed to emphasize the importance of keeping a 50-foot buffer from rail habitat (not entering channels less than 100 feet wide) and staying clear of high-tide refugia, and that landing in marshes and on levees is prohibited. The Water Trail educational sign, brochure and website include this information.</p>
<p>Biology –Western Snowy Plover and California Least Tern References: WT DREIR pp. 3-93 to 3-131 and Figures 3.8.2-3, Personal Communication with CDFW</p>	<p>Bair Island does not provide nesting habitat for snowy plover or California least tern.</p>	<p>Signage is needed to emphasize the importance staying clear of high-tide refugia, and that landing in marshes and on levees is prohibited. The Water Trail educational sign, brochure and website include this information.</p>
<p>Biology – Harbor Seals References: WT DREIR pp. 3-132 to 3-156, Figure 3.9.2-1, and Tables 3.9.2-1, 3.9.2-2, 3.9.5-1, and 3.9.5-2</p>	<p>There are three primary harbor seal haul-out or pupping sites within four miles of this site.</p>	<p>The WT educational sign, brochure, and website all advise boaters not to land at haul-out sites and to always stay at least 330’ away from hauled-out harbor seals and at least 500’ away from March to July when seals are pupping.</p>
<p>Biology – Other Species References: WT DREIR pp. 3-132 to 3-156 San Francisco Estuary Institute Salt Marsh Harvest Mouse Data</p>	<p>The salt marsh harvest mouse is found in Bair Island.</p>	<p>Boaters are advised through the WT brochure and website to not disembark in any undesignated areas or trample sensitive habitats, including marshes. The WT educational sign emphasizes that boaters should not land in marshes or on levees.</p>
<p>Cultural Resources References: WT DREIR pp. 3-163</p>	<p>No WT-related construction is planned at this time. NMSB users are not allowed to land in adjacent wetland habitat, which would prevent potential disturbance of cultural artifacts.</p>	<p>The WT website includes information about avoiding disturbance to cultural artifacts.</p>

Resource Area	Impacts Analysis	Notes
Hydrology	No WT-related construction is planned at this time.	No hydrological changes would occur from existing conditions.
Transportation, Circulation, and Parking	The site has a large parking lot that can accommodate users. Roadways are not anticipated to experience substantial increase in traffic.	Increased use by non-motorized small boat users is not expected to overwhelm parking or road capacity.



Path: N:\GIS\WaterTrail\2012 - Water Trail - Maps\Sites\San Mateo\RW - Municipal Marina - Sept2016\Designations.mxd



Redwood City Municipal Marina, City and Port of Redwood City

- Designated Water Trail Site
- Potential Water Trail Site
- 4 Mile Buffer (from Potential Sites)
- Shipping Channel
- Hunting
- Ridgway's/Black Rail
- Pelican Roost
- Harbor seal pupping site
- Primary or secondary harbor seal haul out site



CA Harbor Seal data from Water Trail FEIR. Ridgway's and black rail, Western snowy plover, and heronry data generalized from 2015 California Natural Diversity Database