Delineation of Potential Jurisdictional Wetlands under Section 404 of the Clean Water Act & California Coastal Act

Navarro River Redwoods State Park Albion, Mendocino county California

California State Parks, Mendocino District

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Report prepared by Bill Maslach, California State Parks. Field delineations by Bill Maslach & Peter Warner, California State Parks. Aerial photograph flown 11/2007.

1.0 Introduction

A wetland delineation study to describe the location and extent of waters, including wetlands, which may be considered jurisdictional by the U.S. Army Corps of Engineers (Corps) under Section 404 of the Clean Water Act and the California Coastal Act, was conducted on and adjacent to the 12-acre Navarro-by-the-Sea Study Area within Navarro River Redwoods State Park in Mendocino County, California. Wetland vegetation, hydrology, and soils were examined to determine the presence of potential wetlands as defined by the Corps of Engineers and the California Coastal Act. Approximately 10 acres of Section 404 jurisdictional wetland and 11.6 acres of California Coastal Act wetland were documented in the study area.

The Clean Water Act gives the Corps jurisdiction over "Waters of the United States," which include, in part: lakes, rivers, streams (including intermittent streams) and wetlands. Under the Clean Water Act, the term "wetlands" means:

... those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas. (33 CFR § 328.3)

The Corps has published a wetland delineation manual including data sheets to use in the determination of the presence or absence of wetlands. These procedures and delineation results are presented in this report.

2.0 Methods

This delineation study has been conducted in accordance with the U.S. Army Corps of Engineers Wetlands Delineation Manual (Corps Manual) (Environmental Laboratory 1987), incorporating data sheets from the Western Region Manual (USACE, 2007). This study evaluated the presence or absence of indicators of three wetlands parameters described in the Corps Manual. The three parameters used to determine the presence of wetlands are (1) hydrophytic vegetation, (2) hydric soils, and (3) wetland hydrology. According to the Corps Manual (1987):

"...[E]vidence of a minimum of one positive wetland indicator from each parameter (hydrology, soil, and vegetation) must be found in order to make a positive wetland delineation." (p. 12)

Prior to conducting field studies, available reference materials were reviewed, including the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the mouth of the Navarro River (FEMA, 1983), historical photographs, and the Mendocino County Soil Survey, Western Part (Natural Resource Conservation Service, 2001). The delineation was completed by Bill Maslach and Peter Warner on June 26, 2007 and by Bill Maslach on January 16 & 17, 2008 for the areas that had the potential to meet wetland definitions.

2.1 Vegetation

The indicator status assigned to a species designates the probability of that species occurring in a wetland. A species with an indicator of OBL, FACW, or FAC (excluding FAC-) is considered to be typically adapted for life in a wetland (hydrophytic vegetation). A species indicator of FAC-, FACU and NL determines an upland species. The wetland occurrence probability and abbreviations utilized in the lists are presented below.

| INDICATOR STATUS | DESCRIPTION | OCCURRENCE IN WETLANDS |
|------------------|---|------------------------|
| OBL | obligate wetland plants | >99% |
| FACW | facultative wetland plants | 67-99% |
| FAC | facultative plants | 34-66% |
| FACU | facultative upland plants | 1-33% |
| UPL | obligate upland plants | <1% |
| NI | no indicator (insufficient information) for the region (rated neutral) | ** |
| NL | not listed (rated upland) | - |
| plus sign (+) | frequency toward higher end of a category | - |
| minus sign (-) | frequency toward lower end of a category | - |
| asterisk (*) | indicates tentative assignment based on limited information | - |

The dominant vegetation at each sample point was noted and evaluated for prevalence of hydrophytes. Indicator status follows Reed (1988).

2.2 Hydrology

Wetland hydrology is a term which encompasses hydrologic characteristics of areas that are periodically inundated or saturated within 12 inches of the surface at some time during the growing season. Recorded data can be used when available to determine wetland hydrology. Recorded data showing inundation or saturation within 12 inches of the surface for a minimum of five percent of the growing season (18 days coastal Mendocino County) is considered evidence of wetland hydrology.

When studies are conducted at a time of year when surface water, ground water, or saturated soils can not be observed, evidence of wetland hydrology is based on observation of the hydrologic indicators described in the 1987 *Corps Manual*. Evidence of wetland hydrology can include direct evidence (primary indicators), such as visible inundation or saturation, surface sediment deposits, and drift lines, or indirect indicators (secondary indicators), such as oxidized root channels and algal mats. If indirect or secondary indicators are used, at least two secondary indicators must be present to conclude that an area has wetland hydrology. The drainage in the study area was examined for these hydrologic indicators. The presence of any primary or secondary wetland hydrologic indicators was noted at each sample point.

2.3 Soils

The Natural Resource Conservation Service defines a hydric soil as:

"A hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part." (Federal Register July 13, 1994, US Department of Agriculture, Natural Resource Conservation Service.)

Soils formed over long periods of time under wetland (anaerobic) conditions sometimes possess characteristics that indicate that they meet the definition of hydric soils.

At each sample point a soil pit was dug to a minimum of a 18-inch depth where possible. In each pit distinct soil layer depths were noted and their matrix and mottle colors (if present) were compared to the Munsell soil color chart (GretagMacbeth 2000) for color appearance (hue), intensity (value), and shade (chroma). Redoximorphic features and soil texture were noted.

3.0 Results

The results were taken from sample pits and recorded on data sheets (Appendix C). Locations of sample points are depicted on the delineation maps (Appendix A). General locations of most sample points are also depicted on a historic photograph of a portion of the study area (Appendix B).

The wetland hydrology, hydric soils, and hydrophytic vegetation indicators used to make wetland determinations are summarized below. Potential jurisdictional areas described below are shown on the delineation map (Appendix B). Development within all areas of the flood plain as mapped on the FEMA flood map may be under the jurisdiction of those agencies regulating wetlands. The mapped wetlands in the study area more or less correspond to the FEMA flood map. However, there is one small mapped unit that did not meet wetland criteria that is within the flood plain.

Culverts that occur in the red alder vegetation plots may be considered "other waters" of the US and may be under jurisdiction of the US Army Corps of Engineers. Because these vegetation communities are mapped as red alder, they are considered Environmentally Sensitive Habitat Areas (ESHA's) under the Mendocino County Local Coastal Plan.

| PLOT | PLANT COMMUNITY | SOIL | Hydrology | VEGETATION | CA COASTAL ACT | US CLEAN WATER ACT | ACRES |
|------|-------------------------------------|------|-----------|------------|-------------------|-----------------------|-------|
| 1 | Marshy Grassland | Yes | Yes | Yes | Yes | Yes | 0.23 |
| 2 | Arroyo Willow Thicket | Yes | Yes | Yes | Yes | Yes | 2.93 |
| 3 | Non-Native Grassland / Shrubs | No | No | No | No | No ¹ | 0.27 |
| 4 | Marshy Disturbed Land | Yes | Yes | Yes | Yes | Yes ¹ | 0.10 |
| 5 | Red Alder | No | No | Yes | Yes | No | 1.39 |
| 6 | English Ivy / Blackberry | Yes | Yes | No | Yes | No | 0.06 |
| 7 | Coyote Brush Coastal Scrub | No | No | No | No | No | 10.53 |
| 8 | Coastal Beach | Yes | Yes | No | Yes | Yes ² | 3.79 |
| 9 | Arroyo Willow Thicket | No | No | Yes | Yes | No | 0.29 |
| 10 | Bullrush / Cattail Wetland | Yes | Yes | Yes | Yes | Yes | 2.88 |
| 11 | Ornamental Landscaping / Eucalyptus | No | No | No | No | No | 2.14 |

¹ Although no wetland parameters occur on this mapped unit, the unit falls within the FEMA mapped floodplain.

² Wetland vegetation was not present, but the USACE will assume jurisdiction over a coastal beach.

4.0 References

Environmental Laboratory. 1987. "Corps of Engineer Wetlands Delineation Manual," Technical Report Y-87-1, US Army Engineer Waterway Experiment Station, Vicksburg, Miss.

Federal Register February 24, 1995. US Department of Agriculture, Natural Resource Conservation Service.

Federal Register July 13, 1994. US Department of Agriculture, Natural Resource Conservation Service

GretagMacbeth. 2000. Munsell Soil Color Charts. New Windsor, New York.

Natural Resource Conservation Service. 2001. Mendocino County Soil Survey, Western Part.

Reed, Jr., Porter B. 1988. National List of Plant Species That Occur in Wetlands: National Summary. U.S. Fish & Wildlife Service. Biological Report 88 (24). 244 pp.

Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the mouth of the Navarro River (FEMA, 1983). Panel 750 of 110. Accessed online at

- Natural Resources Conservation Service. August 11, 2005. National Hydric Soils List by State, California Portion of the National Hydric Soil List. <u>http://soils.usda.gov/use/hydric/lists/state.html</u>
- U.S. Army Corps of Engineers (USACE). 2007. Draft Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Region. U.S. Army Engineer Research and. Development Center. Vicksburg, MS 39180-6199.

Appendix A. Wetland Delineation Maps

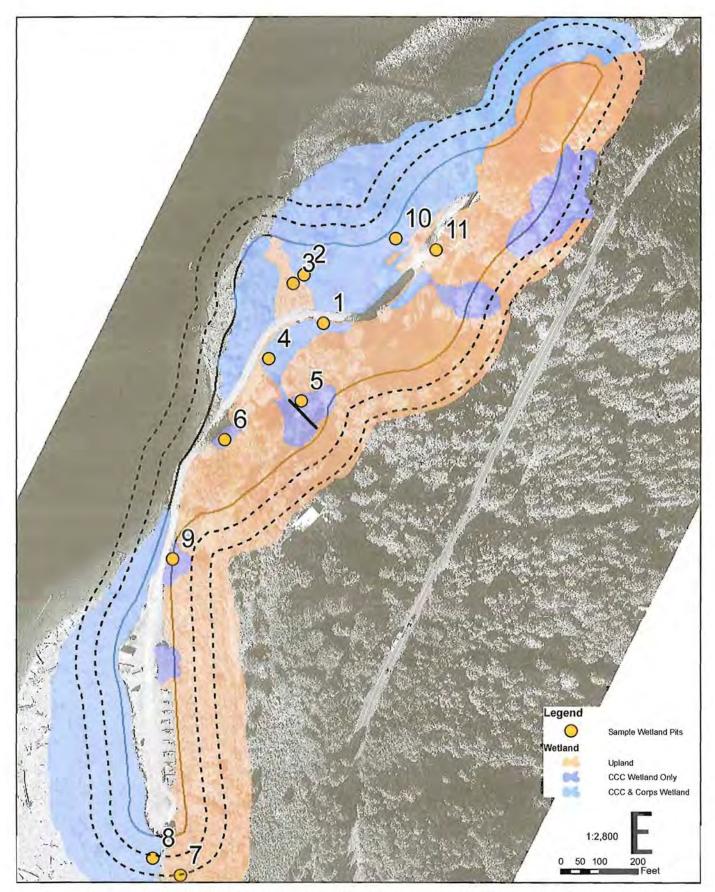


Figure A1. Navarro-by-the-Sea Wetland Delineation Map - Navarro River Redwoods State Park. Upland areas, California Coastal Act (CCC) wetlands, and both CCC wetlands and the US Army Corps of Engineers (Corps) wetlands are shown based on wetland parameters (soil, vegetation, & hydrology) from sample pit locations.

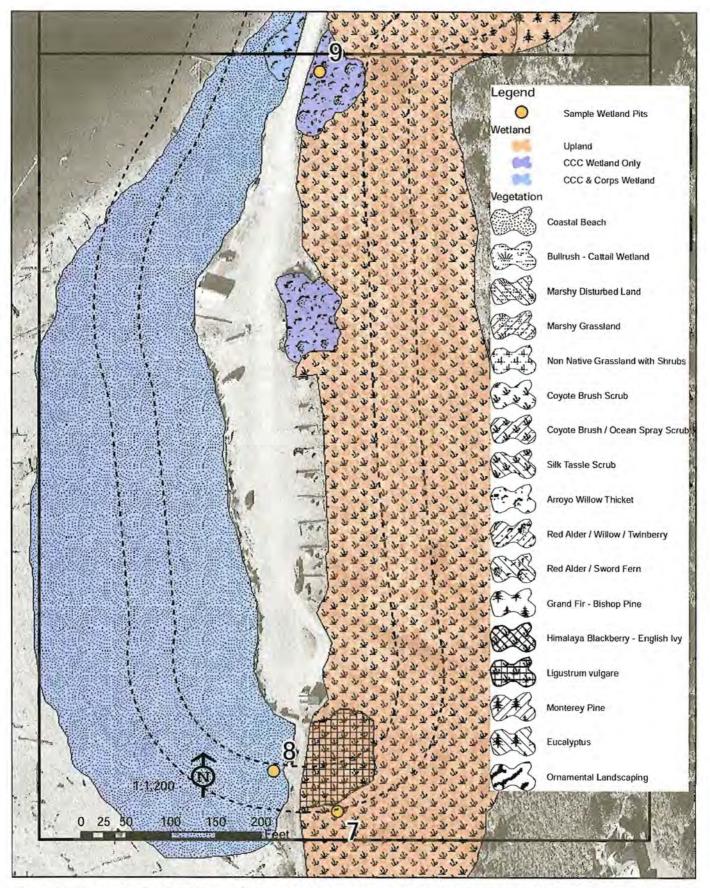


Figure A2 Navarro-by-the-Sea Wetland Delineation Map - Navarro River Redwoods State Park - Sheet 01. Upland areas, California Coastal Act (CCC) wetlands, and both CCC wetlands and the US Army Corps of Engineers (Corps) wetlands are shown based on wetland parameters (soil, vegetation, & hydrology). The sample pits may represent several vegetation classes delineated on the map.

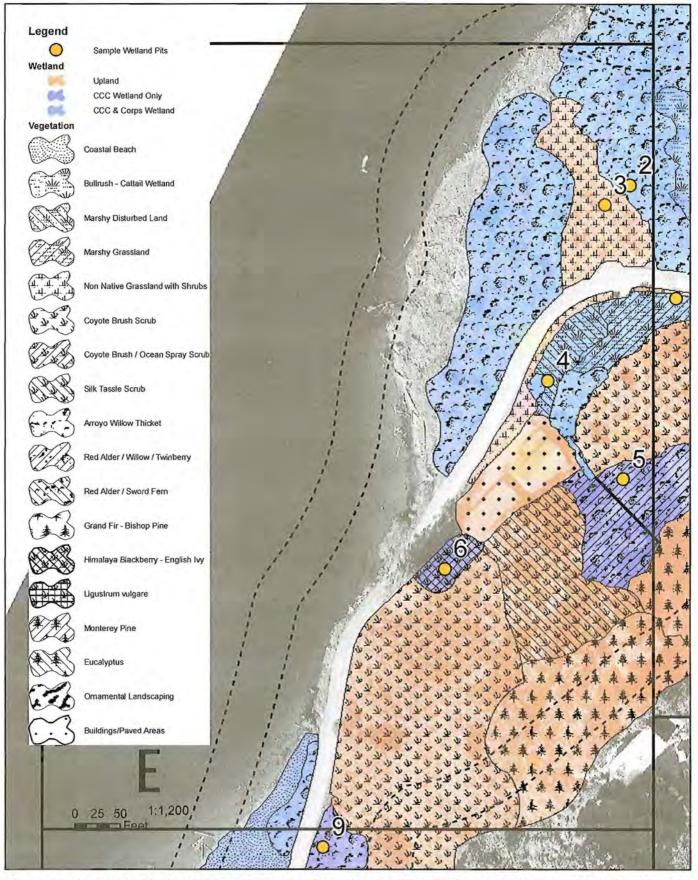


Figure A3. Navarro-by-the-Sea Wetland Delineation Map - Navarro River Redwoods State Park - Sheet 02. Upland areas, California Coastal Act (CCC) wetlands, and both CCC wetlands and the US Army Corps of Engineers (Corps) wetlands are shown based on wetland parameters (soil, vegetation, & hydrology). The sample pits may represent several vegetation classes delineated on the map.

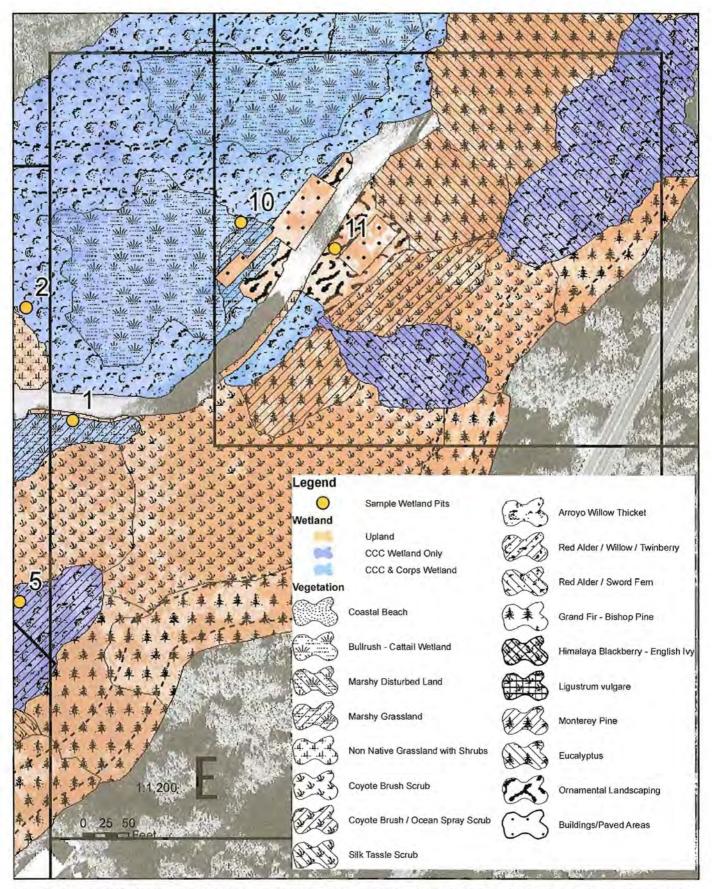


Figure A4. Navarro-by-the-Sea Wetland Delineation Map - Navarro River Redwoods State Park - Sheet 03. Upland areas, California Coastal Act (CCC) wetlands, and both CCC wetlands and the US Army Corps of Engineers (Corps) wetlands are shown based on wetland parameters (soil, vegetation, & hydrology). The sample pits may represent several vegetation classes delineated on the map.

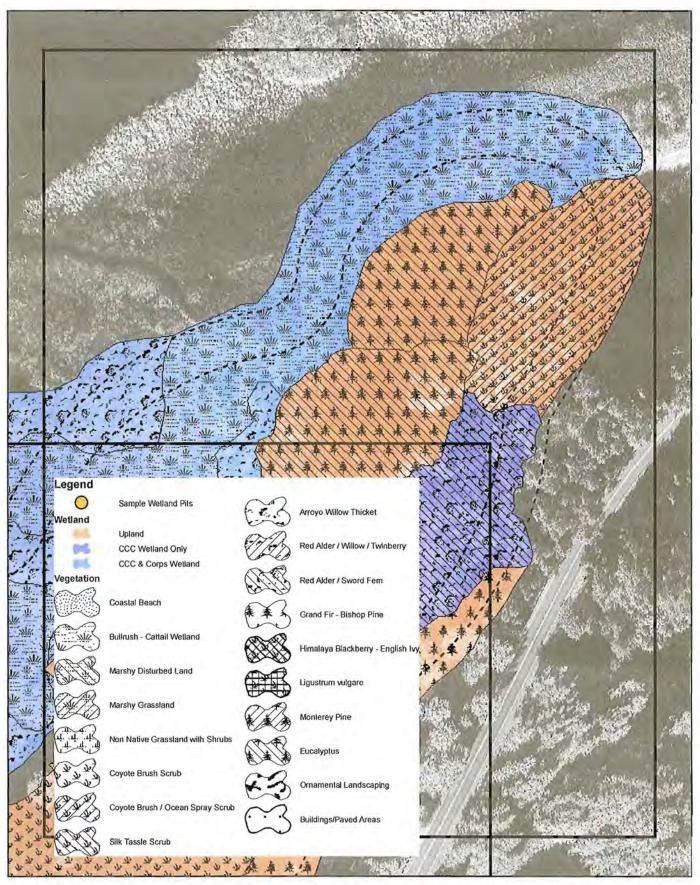


Figure A5. Navarro-by-the-Sea Wetland Delineation Map - Navarro River Redwoods State Park - Sheet 04. Upland areas, California Coastal Act (CCC) wetlands, and both CCC wetlands and the US Army Corps of Engineers (Corps) wetlands are shown based on wetland parameters (soil, vegetation, & hydrology). The sample pits may represent several vegetation classes delineated on the map.

Appendix B. Historic Photographs with Selected Wetland Sample Pit Locations

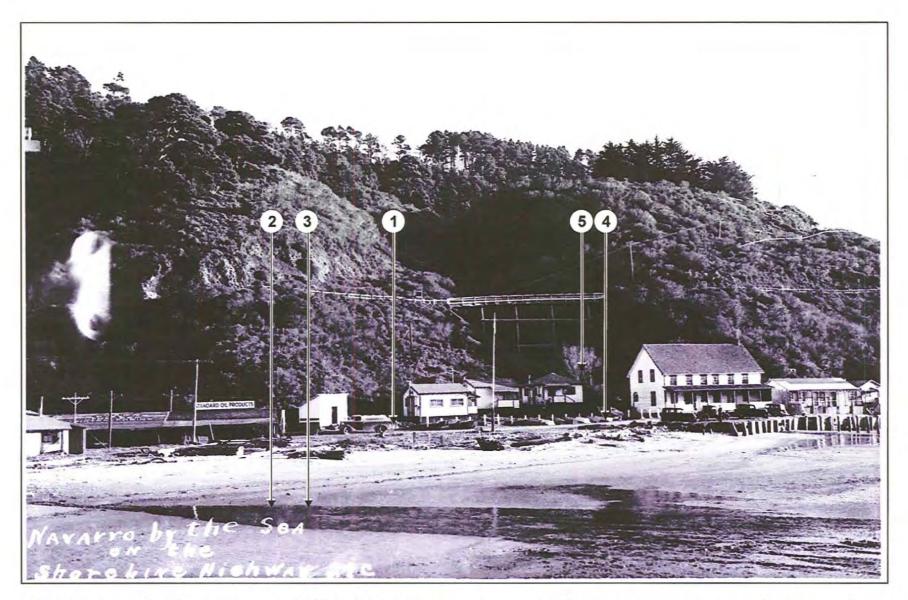


Figure B1. Navarro Inn Historic Photograph with Wetland Sample Pits. Approximate sample pit locations are shown on the photograph and correspond to the sample pit numbers on the data sheets.

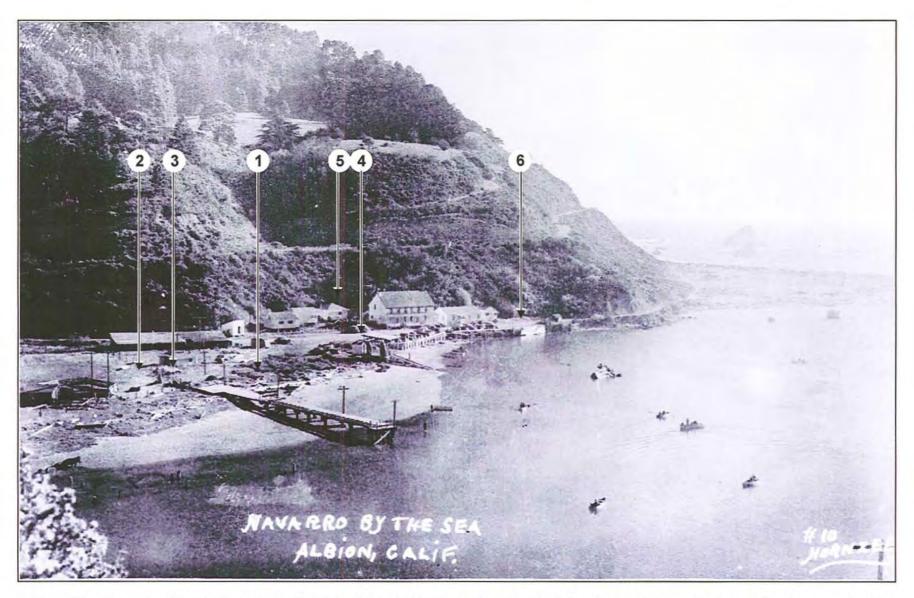


Figure B2. Navarro Inn Historic Photograph with Wetland Sample Pits. Approximate sample pit locations are shown on the photograph and correspond to the sample pit numbers on the data sheets.

Appendix C. Photographs of Selected Wetland Sample Pits



Figure C1. General Area of Sample Pit #6. Typical vegetation is shown in the photograph. See corresponding datasheet. White circle with "X" indicates general area of sample pit.



Figure C2. General Area of Sample Pit #7. Typical vegetation is shown in the photograph. See corresponding datasheet. White circle with "X" indicates general area of sample pit.



Figure C3. General Area of Sample Pit #8. Typical vegetation is shown in the photograph. See corresponding datasheet. White circle with "X" indicates general area of sample pit.



Figure C4. General Area of Sample Pit #9. Typical vegetation is shown in the photograph. See corresponding datasheet. White circle with "X" indicates general area of sample pit.

Appendix D. Study Area Photograph



Figure D1. General Area of Study Area. Photograph taken from Highway 1 looking south at the Study Area.

Appendix E. Wetland Data Sheets

| Project/Site: <u>Navarro Inn</u> | | City/County | : Albion / | Mendocino | Sar | npling Da | te: <u>06/</u> 2 | 26/2007 |
|---|---------------|--------------|---------------------------|--------------------------------------|--------------|------------------------|---------------------|----------|
| Applicant/Owner: <u>California State Parks</u> | State: CA | | | | | npling Poi | int: <u>1</u> | |
| Investigator(s): Bill Maslach | Section, To | wnship, Re | nge: <u>Sec. 04; T 15</u> | N: R 17 W | | | N., | |
| Landform (hillslope, terrace, etc.): <u>flat above estuary</u> | | Local relief | (concave, | convex, none): <u>non</u> | 18 | | Slope (% |): _0 |
| Subregion (LRR): | Lat: 123 | 45' 24.1" | | _ Long: <u>39 11' 39.8</u> | 3" | C | Datum: | |
| Soil Map Unit Name: Tropaquepts, 0 to 15% slope (a hydr | | | | | | | | |
| Are climatic / hydrologic conditions on the site typical for th | | | | | | | | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>Yes</u> | | | | "Normal Circumstan | | | $\mathbf{\nabla}$ | No |
| Are Vegetation No, Soil No, or Hydrology No | | | | eeded, explain any a | | | | |
| SUMMARY OF FINDINGS – Attach site map | | | | | | | | es, etc. |
| Hydrophytic Vegetation Present? Yes | No | le th | e Sampled | | | | | |
| Hydric Soil Present? Yes | No | | in a Wetla | | | No | 50005 | |
| Wetland Hydrology Present? Yes | No | ¥VI413 | | 107 103 | | NU | | |
| crusts are visible during the dry season. The adjacent p behind the inn, causing increased soil saturation through VEGETATION | | | ne natural c | | i was not di | etermined | | |
| Tree Stratum (Use scientific names.) | | Species? | | Number of Domin | | s | | |
| 1. Salix lasiolepis | 10 | Yes | FACW | That Are OBL, FA | | C: | | _ (A) |
| 2. | | | | Total Number of I | Dominant | | | |
| 3 | | | | Species Across A | All Strata: | 3 | | _ (B) |
| 4 Total Cov Sapling/Shrub Stratum | er: <u>10</u> | | | Percent of Domin That Are OBL, FA | | | 00 | _ (A/B) |
| 1 | | | | Prevalence Inde | x workshe | et: | | |
| 2 | | | | Total % Cove | er of: | Mu | Itiply by: | |
| 3 | | | | OBL species | 0 | _ x1=_ | 0 | |
| 4 | | | | FACW species | 0 | _ x2=_ | 0 | |
| 5 | | | | FAC species | | | | |
| | er: 0 | | | FACU species | | | | |
| Herb Stratum 1. Holcus lanauts | 50 | Yes | FAC | UPL species | | | | |
| 2. Juncus effusus | | Yes | OBL | Column Totals: | 0 | _ (A) _ | 0 | (B) |
| 3. Alopecurus aegualis | | | OBL | Prevalence | Index = B | /A = | 0 | |
| 4 | | | | Hydrophytic Veg | | | | |
| 5 | | | | Dominance 1 | Fest is >50 | % | | |
| 6, | | | | Prevalence I | ndex is ≤3. | 0 ¹ | | |
| 7. | | | | Morphologics | al Adaptatio | ons ¹ (Prov | vide supp | orting |
| 8. | | | | 1 | emarks or c | | rate sheel | t) |
| Total Cov | er: <u>75</u> | | | Wetland Non | | | lan ¹ (m | ata) |
| Woody Vine Stratum 1 | | | 100 | Problematic | | | | |
| 2. | | Mithilian | | be present. | | | | |
| Total Cov | er:0 | | | Hydrophytic Vegetation | | | | |
| % Bare Ground in Herb Stratum | | | | Present? | Yes <u> </u> | No |) | |
| Remarks: Increased hydrophytic vegetation at sample site on sou berm, the soil may be as saturated as it is now due to t | | | | | d berm. Ho | wever, w | ithout the | road |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| Depth Matrix Redox Features | | | | | | | | |
| (inches) Color (moist) % Color (moist) % Type ¹ Loc ² | Texture Remarks | | | | | | | |
| 0-15 10 YR 2/2 | silly clay few 5" rocks of road base origin | | | | | | | |
| | | | | | | | | |
| | ₩₩ ₩ <u>₩</u> , | | | | | | | |
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| | nag ning-stansar, | | | | | | | |
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| | ana wagaaaaaaaaaayaaadaaaa Maydadaaaaaaaaaaaaaa | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) | Indicators for Problematic Hydric Solls ³ : | | | | | | | |
| ✓ Histosol (A1) Sandy Redox (S5) | 2 cm Muck (A10) | | | | | | | |
| Histic Epipedon (A2) Stripped Matrix (S6) | Red Parent Material (TF2) | | | | | | | |
| Histo Epipeder (V2) Outped matrix (OO) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA | | | | | | | | |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) | | | | | | | | |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) | | | | | | | | |
| Thick Dark Surface (A12) Redox Dark Surface (F6) | | | | | | | | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) | ³ Indicators of hydrophytic vegetation and | | | | | | | |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) | wetland hydrology must be present. | | | | | | | |
| Restrictive Layer (if present): | | | | | | | | |
| Туре: | . Similar and the second se | | | | | | | |
| Depth (inches): | Hydric Soll Present? Yes No | | | | | | | |
| Remarks: | | | | | | | | |
| Soil (Tropoquepts, 0-5% slope) is listed on the National List of Hydric Soils. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLOGY | | | | | | | | |
| Wetland Hydrology Indicators: | Secondary Indicators (2 or more required) | | | | | | | |
| Primary Indicators (any one indicator is sufficient) | Water-Stained Leaves (B9) (NW coast) | | | | | | | |
| Surface Water (A1) Water-Stained Leaves (B9) (except NW | | | | | | | | |
| High Water Table (A2) Salt Crust (B11) | Drainage Patterns (B10) | | | | | | | |
| ✓ Saturation (A3) Aquatic Invertebrates (B13) | Dry-Season Water Table (C2) | | | | | | | |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) | Saturation Visible on Aerial Imagery (C9) | | | | | | | |
| Sediment Deposits (B2) Öxidized Rhizospheres along Living Roo | ts (C3) Geomorphic Position (D2) | | | | | | | |
| ✓ Drift Deposits (B3) Presence of Reduced Iron (C4) | Shallow Aquitard (D3) | | | | | | | |
| Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6 | Frost-Heave Hummocks (D4) | | | | | | | |
| Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) |) FAC-Neutral Test (D5) | | | | | | | |
| Surface Soil Cracks (B6) Other (Explain in Remarks) | Raised Ant Mounds (D6) (LRR A) | | | | | | | |
| Inundation Visible on Aerial Imagery (B7) | | | | | | | | |
| Field Observations: | | | | | | | | |
| Surface Water Present? Yes No V Depth (inches): | | | | | | | | |
| Water Table Present? Yes Ves Ves Depth (inches): 15 | | | | | | | | |
| Saturation Present? Yes 🔽 No 📃 Depth (inches): 10 We | Sumpression Sumpression Sumpression . | | | | | | | |
| (includes capillary fringe) | | | | | | | | |
| | etland Hydrology Present? Yes 🖌 🖌 No 📜 | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections Remarks: | s), if available: | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections | s), if available: | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections Remarks: | s), if available: | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections Remarks: | s), if available: | | | | | | | |

| Project/Site: Navarro Inn | City/County: <u>Albion / Mendocino</u> | Sampling Date:06/26/2007 |
|--|--|---|
| Applicant/Owner: California State Parks | State: CA | A Sampling Point: 2 |
| Investigator(s): Bill Maslach, Peter Warner | Section, Township, Range: Sec. 04; Tr | 15N; R 17 W |
| Landform (hillslope, terrace, etc.): <u>Tidal marsh</u> | Local relief (concave, convex, none): s | lightly concave Slope (%): 0 |
| Subregion (LRR): Lat | . <u>123 45' 24.8"</u> Long: <u>39 11' 4</u> | 0.9" Datum: |
| Soil Map Unit Name: Tropaquepts, 0 to 15% slope (a hydric soil) | | I classification: Palustrine Shrub - willow |
| Are climatic / hydrologic conditions on the site typical for this time | of year? Yes 🔽 No 🧾 (If no, exp | plain in Remarks.) |
| Are Vegetation No, Soil No, or Hydrology No signific | antly disturbed? Are "Normal Circums | tances" present? Yes 🔽 No 🧾 |
| Are Vegetation No_, Soil No_, or Hydrology No_ natural | y problematic? (If needed, explain an | y answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map show | ving sampling point locations, tra | nsects, important features, etc. |
| Hydrophytic Vegetation Present? Yes ✓ No ✓ Hydric Soil Present? Yes ✓ No ✓ Wetland Hydrology Present? Yes ✓ No ✓ | within a Wetland? Y | ′es No |
| Remarks: | , | |
| | | |
| | | |

VEGETATION

| | Absolute | Dominant | | Dominance Test worksheet: |
|--|---|----------|-----------|---|
| Tree Stratum (Use scientific names.) | % Cover | Species? | Status | Number of Dominant Species |
| 1. Salix lasiolepis | | Yes | FACW | That Are OBL, FACW, or FAC: (A) |
| 2. Salix lucida | 20 | Yes | <u>NI</u> | Total Number of Dominant |
| 3 | | No | NL | Species Across All Strata: (B) |
| 4 | | No | NL | |
| Total Cover: | | | | Percent of Dominant Species 100% (A/B) |
| Sapling/Shrub Stratum | | | | |
| 1 | | No | NL | Prevalence Index worksheet: |
| 2 | | No | NL | Total % Cover of: Multiply by: |
| 3 | | No | NL | OBL species x 1 = |
| 4 | | No | NL | FACW species x 2 =0 |
| 5 | <u>, , , , , , , , , , , , , , , , , , , </u> | No | NL | FAC species x 3 = |
| Total Cover: | 0 | | <u>,</u> | FACU species 0 x 4 = 0 |
| Herb Stratum | | | | UPL species x 5 = |
| 1. Potentilla anserina | 40 | Yes | OBL | Column Totals: (A) (B) |
| 2. Oenanthe sarmentosa | 15 | Yes | OBL | |
| 3, Juncus effusus | 10 | No | OBL | Prevalence Index = B/A =0 |
| 4. Rubus ursinus | 10 | No | FACW | Hydrophytic Vegetation Indicators: |
| 5. Hoicus lanauts | 5 | No | FAC | ✓ Dominance Test is >50% |
| 6. Equisetum telmateia | 4 | No | OBL | Prevalence index is ≤3.0 ¹ |
| 7 | | No | NL | Morphological Adaptations ¹ (Provide supporting |
| 8. | | No | NL. | data in Remarks or on a separate sheet) |
| Total Cover: | 84 | | | Wetland Non-Vascular Plants ¹ |
| Woody Vine Stratum | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 1 | | No | NL | ¹ Indicators of hydric soll and welland hydrology must |
| 2 | | No | NL | be present. |
| Total Cover: | 0 | | | Hydrophytic |
| % Bare Ground in Herb Stratum | | | | Vegetation Present? Yes No |
| Remarks: | | | - | d |
| Willow thicket with areas of standing water. | | | | |
| | | | | |
| | | | | |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) | | | | | | | | | | |
|---|---------------------|---------------------|--------------------------------------|------------------------|---|------------------|-----------------------|----------------|-------------------------|--|
| Depth | Matrix | | | x Features | | | | | | |
| (inches) | Color (moist) | % | Color (moist) | | Type ¹ | Loc ² | Texture | ***** | Remarks | and the second state of th |
| 0 -15 | 10 YR 2/2 | | | | **** | | silty clay | muck | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | ····· | 12 | n | •••••••••••••••••••••••••••••••••••••• | | | P4-14 | | |
| | 1h | | | | | | | | harrangen ekkned | |
| | | <u></u> | | | <u></u> | | 1990 Mit | | | |
| | | | | | | **** | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 170 mai - 0-0 | | aniotion OM- | Deduced Metrix | ² 1 contion | | | C=Root Chan | nal Mathaka | | |
| | | | Reduced Matrix. .RRs, unless othe | | | e Lining, rk | | | ix. Iematic Hydrid | Solls ³ |
| Histosol | | nousie to un i | Sandy Redox (| | | | | m Muck (A10 | - | |
| | lipedon (A2) | | Sanuy Redux (| | | | | I Parent Mat | | |
| Black Hi | • • • | | Loamy Mucky | |) (excent | MLRA 1) | | er (Explain i | | |
| | n Sulfide (A4) | | Loamy Gleyed | • | • • • | | | er (michiant i | | |
| | Below Dark Surf | ace (A11) | Depleted Matrix | , , | | | | | | |
| | irk Surface (A12) | | Redox Dark Su | | | | | | | |
| | lucky Mineral (S1) | | Depleted Dark | | 7) | | ³ Indicate | ors of hydrop | phytic vegetatic | n and |
| | leyed Matrix (S4) | | Redox Depress | ions (F8) | | | wetla | and hydrolog | y must be pres | ent. |
| Restrictive I | ayer (if present), | : | | | | | | | | |
| Туре: | | | | | | | | | gint databative and the | gunteranovar |
| Depth (inc | :hes): | | | | | | Hydric Soil | Present? | Yes | No |
| Remarks: | | | | | | | | | | |
| Soil (Tropo | quepts, 0-5% slop | e) is listed on | the National List of | Hydric Soil | s. | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | <u></u> | | | | | | | | | |
| HYDROLO | | | | | | | | | | |
| Wetland Hye | trology Indicator | 'S: | | | | | Second | ary indicator | s (2 or more re | auired) |
| Primary India | ators (any one inc | dicator is suffic | ient) | | | | Wa | ter-Stained L | .eaves (B9) (N | W coast) |
| 🖌 Surface | • • | | Water-Staine | d Leaves (| (B9) (exc e | ept NW co | ast) Spa | arsely Vegeta | ated Concave (| Surface (B8) |
| 🖌 High Wa | ter Table (A2) | | Salt Crust (B | 11) | | | Dra | inage Patter | ns (B10) | |
| 🖌 Saturatio | yn (A3) | | Aquatic Inve | • | - | | Dry | -Season Wa | ter Table (C2) | |
| 🖌 Water M | arks (B1) | | ✓ Hydrogen St | lfide Odor | (C1) | | Sat | uration Visib | le on Aerial Im | agery (C9) |
| | t Deposits (B2) | | Oxidized Rhi | zospheres | along Liv | ing Roots | (C3) Geo | omorphic Po | sition (D2) | |
| | oosits (B3) | | Presence of | | | | Sha | llow Aquitar | d (D3) | |
| | t or Crust (B4) | | Recent Iron I | | | | | | mmocks (D4) | |
| Iron Dep | | | Stunted or S | | | (LRR A) | | C-Neutral Te | | |
| | Soil Cracks (B6) | | Other (Expla | in in Rema | rks) | | Rai | sed Ant Mou | inds (D6) (LR R | A) |
| | on Visible on Aeria | al Imagery (B7 |) | | | | -144 | | | |
| Field Obser | | forest at | gallowcale | | _ | | | | | |
| Surface Wate | | Yes V | | | 2 | - | | | | |
| Water Table | Present? | Yes 🔽 M | | ches): | 0 | | | | gaussiantigicus | printing and |
| Saturation Pr | | Yes 🔽 N | lo Depth (in | ches): | 0 | Wetfa | and Hydrolog | y Present? | Yes 🗸 | No |
| (includes cap | Mary fringe) | | nitoring well, aerial | nhotos are | vioue inc. | nactione | if available: | | | |
| Descrine Ker | wided Data (still) | an yauyo, mo | moning wen, actial | photos, pre | /////////////////////////////////////// | /conorts), | | | | |
| Denset | | | | | | | | | | |
| Remarks: Pit dug to 1 | 8". Areas of stan | ding water in s | aturated soil. | | | | | | | |
| | | - and a second of a | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Project/Site: Navarro Inn | City/County: | Albion / Mendocino | Sampling Date: 06/26/2007 |
|---|-----------------------------------|------------------------------------|--|
| Applicant/Owner: <u>California State Parks</u> | | State: <u>C/</u> | A Sampling Point: <u>3</u> |
| Investigator(s): Bill Maslach, Peter Warner | Section, Tow | vnship, Range: <u>Sec. 04; T</u> r | 15N; R 17 W |
| Landform (hillslope, terrace, etc.): <u>Tidal flat</u> | Local relief | (concave, convex, none): <u>1</u> | None Slope (%): _0 |
| Subregion (LRR): | Lat: <u>123 45' 25,1"</u> | Long: <u>39 11' 4</u> | 0.7" Datum: |
| Soll Map Unit Name: Tropaquepts, 0 to 15% slope (| a hydric soll) | NW | l classification: Palustrine Scrub-Shrub |
| Are climatic / hydrologic conditions on the site typica | I for this lime of year? Yes 🗾 | <u>/</u> No (If no, exp | plain in Remarks.) |
| Are Vegetation No, Soil No, or Hydrology 1 | No significantly disturbed? | Are "Normal Circums" | tances" present? Yes 📝 No 厂 |
| Are Vegetation No, Soil No, or Hydrology 1 | Nonaturally problematic? | (If needed, explain ar | y answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site | map showing sampling |) point locations, tra | nsects, important features, etc. |
| Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes | No | e Sampled Area n a Wetland? Y | /esNo |
| Remarks: Grassy opening in tidal-edge willow thicket. Appen | ars that this clearing may have i | been an old road to the wat | ler. |

VEGETATION

| | Absolute | Dominant | | Dominance Test worksheet: |
|---|----------|----------|------|---|
| Tree Stratum (Use scientific names.) | % Cover | | | Number of Dominant Species |
| 1 | | No | NI | That Are OBL, FACW, or FAC: 0 (A) |
| 2 | | No | NL | Total Number of Dominant |
| 3 | | No | NL | Species Across All Strata:(B) |
| 4 | | | NL | |
| Total Cover: | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B) |
| Sapling/Shrub Stratum | 1 | • | | |
| 1 | | No | NL | Prevalence Index worksheet: |
| 2 | | No | NL | Total % Cover of: Multiply by: |
| 3 | | | NL | OBL species x 1 = |
| 4 | | | NL | FACW species x 2 = |
| 5 | | No | NL | FAC species $0 \times 3 = 0$ |
| Total Cover: | 0 | | | FACU species x 4 = |
| Herb Stratum | | | | UPL species x 5 = |
| 1. Vulpie myuros | 40 | Yes | FACU | Column Totals: (A) (B) |
| 2. Linum blenne | 30 | Yes | NL | |
| 3. Plantago lanceolata | 7 | No | FAC- | Prevalence Index = B/A =0 |
| 4. Rumex salicifolia | 5 | No | OBL | Hydrophytic Vegetation Indicators: |
| 5. Aira caryophylla | 3 | No | NL | ✓ Dominance Test is >50% |
| 6. Briza maxima | 5 | No | NL | Prevalence Index is ≤3.0 ¹ |
| 7 | | No | NL | Morphological Adaptations ¹ (Provide supporting |
| 8 | | No | NL | data in Remarks or on a separate sheet) |
| Total Cover: | 90 | | | Wetland Non-Vascular Plants ¹ |
| Woody Vine Stratum | | • | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 1. | | No | NL | ¹ Indicators of hydric soil and wetland hydrology must |
| 2 | | | NL | be present. |
| Total Cover: | | | | Hydrophytic Vegetation |
| % Bare Ground in Herb Stratum | | | | Present? Yes No |
| Remarks: Open area mostly of annual grasses. | | | | |
| open area mostry or annuar grasses. | | | | |
| | | | | |
| | | | | |
| | | | | |

| SOIL |
|------|
|------|

| Profile Desc | ription: (Describe | to the depth | needed to docur | nent the lr | ndicator o | or confirm | the absence | of indicators.) |
|--------------------------|---|--------------------------------|--|------------------------|-------------------------|------------------------|---|---|
| Depth | Matrix | | | x Features | | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | % | <u>Type¹</u> | <u>Loc²</u> | Texture | Remarks |
| 0-6 | 10 YR 3/4 | | | | | | sandy silt | sml. & med. river pebbles & rocks |
| 6 - 20 | 10 Y/R 3/4 | | | | | | silty sand | many fine pebbles |
| m | | . <u></u> | | * ******** | | | | |
| | <u></u> | · ···· | | | | | | 10.1 77.101 |
| | , | · · · · · · · · | | | | ····· | | |
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| ····· | <u> </u> | n | | | | | 10047-11-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1- | |
| ¹ Type: C=C | oncentration, D=Dep | letion. RM=F | Reduced Matrix. | ² Location: | PL=Por | e Linina. R | C=Root Chan | nel, M=Matrix. |
| | Indicators: (Applic | | | | | | | ors for Problematic Hydric Solls ³ : |
| Histosol | (A1) | _ | Sandy Redox (| S5) | | | 2 ci | m Muck (A10) |
| Histic Ep | pipedon (A2) | | Stripped Matrix | (S6) | | | | d Parent Material (TF2) |
| Black Hi | stic (A3) | _ | _ Loamy Mucky N | Mineral (F1 |) (except | MLRA 1) | Oth | er (Explain in Remarks) |
| | en Sulfide (A4) | | Loamy Gleyed | | | | | |
| | d Below Dark Surfac | e (A11) _ | _ Depleted Matrix | | | | | |
| | ark Surface (A12) | | Redox Dark Su | | - | | 31 m . 4 | |
| | Aucky Mineral (S1) | | _ Depleted Dark | • | () | | | ors of hydrophytic vegetation and |
| | Bleyed Matrix (S4) | | Redox Depress | 10115 (FO) | | | WEUZ | and hydrology must be present. |
| | | | | | | | | |
| | • • • • • • • • • • • • • • • • • • • | | | | | | Liudela Call | |
| | ches): | | | | | | Hydric Soll | l Present? Yes <u>No </u> No <u>I</u> |
| Remarks: | | | | | | | | |
| Soll (Tropo | quepts, 0-5% slope) in an unland area be | is listed on t atween two w | ne National List of retiends possibly r | Hydric Soll | S. the inn na | arkino lot to | n an old hoat l | aunch or ramp. This area may have |
| been filled | with mostly native so | xil, but there a | are some angular s | mall rocks | < 2" indic | cating road | base materia | i may have been introduced. |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hy | drology Indicators: | | | | | | Second | ary Indicators (2 or more required) |
| Primary India | cators (any one indic | ator is suffici | ent) | | | | Wa | ter-Stained Leaves (B9) (NW coast) |
| Surface | Water (A1) | | Water-Staine | d Leaves (| (B9) (exc | ept NW co | ast) Spa | arsely Vegetated Concave Surface (B8) |
| High We | ater Table (A2) | | Salt Crust (B | 11) | | | Dra | inage Patterns (B10) |
| Saturatio | on (A3) | | Aquatic Inve | rtebrates (E | 313) | | Dry | -Season Water Table (C2) |
| Water M | larks (B1) | | Hydrogen Su | Ifide Odor | (C1) | | Sat | uration Visible on Aerial Imagery (C9) |
| Sedimer | nt Deposits (B2) | | Oxidized Rhi | zospheres | along Liv | ing Roots | (C3) Ged | omorphic Position (D2) |
| Drift Dep | oosits (B3) | | Presence of | Reduced Ir | on (C4) | | She | allow Aquitard (D3) |
| | at or Crust (B4) | | Recent Iron I | Reduction i | n Tilled S | ioils (C6) | Fro | st-Heave Hummocks (D4) |
| Iron Dep | | | Stunted or St | | • • | (LRR A) | FA0 | C-Neutral Test (D5) |
| 1 | Soll Cracks (B6) | | Other (Expla | in in Rema | rks) | | Rai | sed Ant Mounds (D6) (LRR A) |
| | on Visible on Aerial | Imagery (B7) | | | | | | |
| Field Obser | vations: | g-121-246 (2020) | get the second second | | | | | |
| Surface Wat | er Present? Y | | o 🔽 Depth (in | | | | | |
| Water Table | Present? Y | | | ches): | | _ | | |
| Saturation P | resent? Y | 'es 📃 N | o 🔽 Depth (in | ches): | | _ Wetla | and Hydrolog | y Present? Yes No V |
| (includes car | oillary fringe) corded Data (stream | | itoring wall aprial | nhoton nro | viewo inn | | if overlighter | |
| Describe Re | colded Data (silean | rgauge, mon | itoning wen, aenai | prioros, pre | wous ms | pections), i | n avaliaulo. | |
| Domester | | | | | | | | |
| Remarks: Pit dug to 1 | l8". | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Project/Site: <u>Navarro Inn</u> | City/County: Albio | n / Mendocino | Sampling Date: 06/26/2007 |
|--|----------------------|-----------------------------------|-----------------------------------|
| Applicant/Owner: California State Parks | | State: CA | Sampling Point: 4 |
| Investigator(s): Bill Maslach | Section, Township, | Range: <u>Sec. 04; T 15N; R 1</u> | 7 W |
| Landform (hillslope, terrace, etc.): flat above estuary | Local relief (conca | ve, convex, none): <u>none</u> | Slope (%): 0 |
| Subregion (LRR): Lat: 123 | 3 45' 25.9" | Long: <u>39 11' 38.8"</u> | Datum: |
| Soil Map Unit Name: Tropaquepts, 0 to 15% slope (a hydric soil) | | NWI classifi | cation: Palustrine Scrub/Emergent |
| Are climatic / hydrologic conditions on the site typical for this time of ye | ear? Yes 🔽 N | lo (If no, explain in F | Remarks.) |
| Are Vegetation No, SollYes, or Hydrology No significantly | disturbed? | Are "Normal Circumstances" | present? Yes No |
| Are Vegetation Yes_, Soil Yes_, or Hydrology No_ naturally pro | oblematic? (| If needed, explain any answ | ers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | sampling poi | nt locations, transect | s, important features, etc. |
| Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No | is the Sam | gonoor | aaa geerjaa |
| Wetland Hydrology Present? Yes 7 No | within a We | etland? Yes <u> </u> | No |
| Remarks: Much of this mapped unit, which is similar to Pit #1, has portions of a | an old paved road vi | sible in an historic photograp | h. |

VEGETATION

| | Absolute | Dominant | | Dominance Test worksheet: |
|--|------------|--------------|---------------|---|
| Tree Stratum (Use scientific names.) | % Cover | Species? | | Number of Dominant Species |
| 1. Salix lasiolepis | 5 | Yes | FACW | That Are OBL, FACW, or FAC: 2 (A) |
| 2 | | | | Total Number of Dominant |
| 3 | | | | Species Across All Strata:(B) |
| 4 | | | | |
| | r: 5 | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) |
| Sapling/Shrub Stratum | | | | |
| 1 | | | | Prevalence Index worksheet: |
| 2 | | | | Total % Cover of: Multiply by: |
| 3 | | | | OBL species x 1 = |
| 4 | | | | FACW species x 2 =0 |
| 5. | | ************ | ······ | FAC species x 3 = |
| Total Cove | | | | FACU species x 4 = |
| Herb Stratum | | | | UPL species x 5 = |
| 1. Hordeum marinum | 20 | Yes | FAC+ | Column Totals: (A) (B) |
| 2. Melilotus indicus | 10 | Yes | NL | |
| 3. Briza maxima | 10 | Yes | <u>NI</u> | Prevalence Index = B/A = |
| 4. Holcus lanatus | 10 | No | FACW | Hydrophytic Vegetation Indicators: |
| 5. Leontodon nudicaulis | 8 | No | NL | Dominance Test is >50% |
| 6, Lollum multiflorum | 5 | No | FAC | Prevalence Index is ≤3.0 ¹ |
| 7, Parentucellia viscosa | 5 | No | FAC | Morphological Adaptations ¹ (Provide supporting |
| 8 | | | | data in Remarks or on a separate sheet) |
| Total Cove | r; 68 | | | Wetland Non-Vascular Plants* |
| Woody Vine Stratum | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 1 | | | | Indicators of hydric soil and wetland hydrology must |
| 2. | - | | | be present. |
| | r: 0 | | | Hydrophytic |
| % Bare Ground in Herb Stratum | | | | Vegetation Present? Yes No V |
| Remarks: The vegetation in this unit is likely not hydrophytic due to | the imperm | leable asph | alt layer fro | m the old road. Adjacent vegetation clearly indicates |

hydrophytic vegetation.

Sampling Point: _4_____

| Profile Desc | ription: (Describe | to the depth | needed to docu | ment the li | ndicator o | or confirm | the absence | of indicators.) |
|---------------|--|------------------|-------------------------------|-----------------------|-------------------|------------------|---------------|---|
| Depth | Metrix | | | ox Features | i | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0 -10 | 10 YR 3/4 | | | - | , | | silty clay | with rocks of road base origin |
| | 845 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | Magaganadana aya muunun aya aya aya aya aya aya aya aya aya ay |
| | | | | | | ##L | | |
| | | | | | ********** | | | |
| | and the second | | | | k | | | ne so new ward and a second of the second |
| | NA | - | | | | - | | |
| | | | | | | | | |
| | ncentration, D=Dep | letion RM=Re | aduced Matrix | ² Location | PI =Por | lining R | C=Root Chan | nel M=Matrix |
| | ndicators: (Applic | | | | | | | ors for Problematic Hydric Soils ³ : |
| Histosol | | | _ Sandy Redox (| | | | | n Muck (A10) |
| | ipedon (A2) | 1 | Stripped Matrix | | | | | Parent Material (TF2) |
| Black Hi | | | Loamy Mucky | Mineral (F1 |) (except | MLRA 1) | | er (Explain in Remarks) |
| Hydroge | n Sulfide (A4) | | _ Loamy Gleyed | Matrix (F2) | | | | |
| Depleted | Below Dark Surfac | e (A11) | _ Depleted Matri | x (F3) | | | | |
| | rk Surface (A12) | | _ Redox Dark Su | | | | | |
| | lucky Mineral (S1) | | _ Depleted Dark | | 7) | | | ors of hydrophytic vegetation and |
| | leyed Matrix (S4) .ayer (if present): | | Redox Depress | sions (F8) | | | Wetla | ind hydrology must be present. |
| | ayer (ii presenc): | | | | | | | |
| Туре: | | | | | | | | glacemus.chegen geneenstangedere |
| Depth (inc | nes): | | | | | | Hydric Soil | Present? Yes No V |
| Remarks: | | | | | | | | |
| Soil (Tropo | quepts, 0-5% slope) | is listed on the | e National List of | Hydric Soi | IS. | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | GY | | | | | | | |
| | irology indicators: | | | | | | Second | ary Indicators (2 or more required) |
| - | ators (any one indic | | ntì | | | | | ter-Stained Leaves (B9) (NW coast) |
| | | ator 19 sumpre | | ad Laguage | (DO) (ava | ant hildf an | | |
| | Water (A1) ter Table (A2) | | Water-Staine Salt Crust (E | | (D9) (BXC | shi www.co | | rsely Vegetated Concave Surface (B8) inage Patterns (B10) |
| Saturatio | | | Aquatic Inve | • | 2421 | | | -Season Water Table (C2) |
| | arks (B1) | | Aquatic inve | | | | | uration Visible on Aerial Imagery (C9) |
| | it Deposits (B2) | | Oxidized Rh | | | ing Poots | | pmorphic Position (D2) |
| | osits (B3) | | Presence of | | | ing Roots | | llow Aquitard (D3) |
| | t or Crust (B4) | | Recent Iron | | • • | olis (CB) | | st-Heave Hummocks (D4) |
| | osits (B5) | | Stunted or S | | | | | C-Neutral Test (D5) |
| | Soil Cracks (B6) | | Other (Expla | | | | | sed Ant Mounds (D6) (LRR A) |
| | on Visible on Aerial | Imagery (B7) | uniti (mibio | | | | | |
| Field Observ | | | | t | | | | |
| Surface Wate | | es No | Depth (in | ches): | | | | |
| Water Table | | Spanward and | man and the cost | ches): | | | | |
| Saturation Pr | | | Depth (in | | | | nd Hudrolog | y Present? Yes |
| (includes cap | | es <u></u> No | Depti (iii | unes) | | | ana nyarorog | Present res <u>ky</u> NO |
| Describe Red | orded Data (stream | i gauge, monit | oring well, aerial | photos, pre | vious ins | pections), | if available: | L |
| See historic | photo in report. | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | *************************************** | - | | | | | | |

| Project/Site: Navarro Inn | | City/County | Albion / I | Mendocino | Sampling Date: 06/26/2007 | | | |
|--|-----------------|--|--------------|---|---------------------------|------------------|------------|--|
| Applicant/Owner: <u>California State Parks</u> | | | | Sampling Poir | nt: <u>5</u> | | | |
| nvestigator(s): Bill Maslach, Peter Warner | | Section, Township, Range: Sec. 04; T 15N; R 17 W | | | | | | |
| andform (hillslope, terrace, etc.); hill slope above tidal flat | | | | | | | | |
| Subregion (LRR): | | | • | | | | | |
| Soil Map Unit Name: Dystropepts, 30 to 75% slope (not a hy | | | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this | | | | | | | | |
| | | | | "Normal Circumstances" p | | Cuestion . | | |
| Are Vegetation No_, Soil Yes_, or Hydrology Yes_si | | | | | - | |) V | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> na | iturally pro | blematic? | (If ne | eeded, explain any answe | rs in Remarks.) |) | | |
| SUMMARY OF FINDINGS – Attach site map s | howing | samplin | g point l | ocations, transects | , important | features | s, etc. | |
| Hydrophytic Vegetation Present? Yes Ves No | filminate | | | | | | | |
| Hydric Soil Present? Yes No | | | e Samplec | | es i latrad | 10° | | |
| Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No | 1 | with | in a Wetlai | nd? Yes 🧾 | No/✓ | | | |
| Remarks: | | l | | | | | | |
| Vegetated swale. Comparison of historic photographs indi the drainage. The watercourse has been placed into a cor VEGETATION | | | | | | | | |
| | Absolute | Dominant | Indicator | Dominance Test work | sheet. | | | |
| Tree Stratum (Use scientific names.) | | Species? | | Number of Dominant Si | necieo | | | |
| 1, Salix lasiolepis | 30 | Yes | FACW | That Are OBL, FACW, | or FAC: | | (A) | |
| 2. Alnus rubra | 20 | Yes | FACW | Total Number of Domin | ent | | | |
| 3 | | | | Species Across All Stra | 9 | | (B) | |
| 4 | | | | Percent of Dominant Sp | acias | | | |
| Total Cover: | 50 | | | That Are OBL, FACW, | | % | (A/B) | |
| Sapling/Shrub Stratum | 40 | Vaa | k H | Descriptions in description | en la sude | | | |
| 1. Ribes sanguineum | <u>10</u> 10 | ihliyiuu dilapananana | NL | Prevalence Index work | | ki w iz / ka z w | | |
| 2, Sambucus racemosa | | Yes | FACU | Total % Cover of: OBL species | | | | |
| 3. | | | | | | | | |
| 4 | | | | FACW species FAC species | | | | |
| 5 | | | | FACU species | | | | |
| Herb Stratum | | | | UPL species | | | _ | |
| 1. Polystichum munitum | 20 | Yes | FACU | Column Totals: 0 | | | | |
| 2. Equisetum telmateia | 20 | Yes | OBL | | (^) | | _ (5) | |
| 3. Rubus ursinus | 10 | Yes | FAC+ | Prevalence Index | = B/A = | | | |
| 4. Calystegia purpurata ssp. purpurata | 10 | No | NL | Hydrophytic Vegetatic | in Indicators: | | | |
| 5. Stachys ajugoldes | 8 | No | OBL | 🖌 Dominance Test is | >50% | | | |
| 6. Heraculum lanatum | 8 | No | FACU | Prevalence Index is | s ≤3.0 ¹ | | | |
| 7. Marah oreganus | 5 | No | NL | Morphological Ada | otations' (Provi | de support | ing | |
| 8 | | | | data in Remarks | - | ate sneet) | | |
| Total Cover: | 81 | • | | Wetland Non-Vasc | | | - ` | |
| Woody Vine Stratum | ~ | | | Problematic Hydrop | - | | | |
| 1. Lonicera hispidula | | Yes | NL | ¹ Indicators of hydric soil be present. | and wetland n | yarology m | lust | |
| 2. Lonnicera involucrata | 5 | Yes | FAC | · | | | | |
| Total Cover: | 10 | | | Hydrophytic Vegetation | | | | |
| % Bare Ground in Herb Stratum | | | | Present? Yes | s <u> </u> | f constant | | |
| Remarks: | | | | | | | | |
| Concave swale with fill material. Small creek has been pl | aced into a | a corrugated | I metal pipe | e culvert. | | | | |
| | | | | | | | | |

| Depth (inches) Matrix Redox Features 0 - 20 10 YR 3/4 clay loam sml. unconsol. pebbles & Frcsn rocks - 20 10 YR 3/4 clay loam sml. unconsol. pebbles & Frcsn rocks - 20 10 YR 3/4 |
|---|
| 0 - 20 10 YR 3/4 clay loam sml. unconsol. pebbles & Frosh rocks |
| 'Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix. Hydric Soli Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ⁴ : Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Channel (F1) |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ : |
| Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) |
| Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) |
| Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) |
| |
| |
| Thick Dark Surface (A12) Redox Dark Surface (F6) |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) ³ Indicators of hydrophytic vegetation and |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) wetland hydrology must be present. |
| Restrictive Layer (if present): |
| Type: |
| Depth (inches): No |
| Remarks: |
| Soil (Dystropepts, 30-75% slope) is not a hydric soil. |
| |
| |
| |
| HYDROLOGY |
| Wetland Hydrology Indicators: Secondary Indicators (2 or more required) |
| |
| Primary Indicators (any one indicator is sufficient) Water-Stained Leaves (B9) (NW coast) |
| Surface Water (A1)Water-Stained Leaves (B9) (except NW coast) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Salt Crust (B11) Drainage Patterns (B10) |
| Saturation (A3)Aquatic invertebrates (B13)Dry-Season Water Table (C2) |
| Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) |
| Outlined Department Department (D0) |
| Sediment Deposits (B2)Oxidized Rhizospheres along Living Roots (C3)Geomorphic Position (D2) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Face Soil Cracks (B6) Face Soil Cracks (B6) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No Depth (inches); |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |
| Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummocks (D4) Iron Deposits (B5) Stunted or Stressed Plants (D1) (LRR A) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) |

| Project/Site: Navarro Inn | City/County: _ | Albion / Mendocino | Sampling Date: 01/16/2008 | | | | | |
|--|-----------------|--|--------------------------------|--|--|--|--|--|
| Applicant/Owner: California State Parks | | State: CA | Sampling Point: 6 | | | | | |
| Investigator(s): Bill Masiach | Section, Towr | nship, Range: <u>Sec. 04; T 15N; I</u> | R 17 W | | | | | |
| Landform (hillslope, terrace, etc.): tidal flat | Local relief (c | oncave, convex, none): <u>none</u> | Slope (%): _0 | | | | | |
| Subregion (LRR): Lat: 123 | 3 45' 27.4" | Long: <u>39 11' 36.8"</u> | Datum: | | | | | |
| Soil Map Unit Name: Tropaquepts, 0 to 15% slope & Coastal Beaches | both hydric s | oils) NWI class | sification: Upland Scrub-Shrub | | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of ye | ear? Yes 🔽 | No (If no, explain i | n Remarks.) | | | | | |
| Are Vegetation No_, Soil No_, or Hydrology No_ significantly disturbed? Are "Normal Circumstances" present? Yes 📝 No 🧾 | | | | | | | | |
| Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (If needed, explain any answers in Remarks.) | | | | | | | | |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling | point locations, transed | cts, important features, etc. | | | | | |
| Hydrophytic Vegetation Present? Yes I No I✓ Hydric Soil Present? Yes I✓ No I Wetland Hydrology Present? Yes I✓ No I Remarks: I I I I I | | Sampled Area a Wetland? Yes | □ No | | | | | |
| | | | | | | | | |

VEGETATION

| | Absolute | Dominant | | Dominance Test worksheet: | |
|--------------------------------------|----------|-------------|-----------|---|-----|
| Tree Stratum (Use scientific names.) | | Species? | | Number of Dominant Species | |
| 1 | | | | That Are OBL, FACW, or FAC: (A) |) |
| 2 | | | | Total Number of Dominant | |
| 3 | | | | Species Across All Strata: (B) |) |
| 4 | | | | Percent of Dominant Species | |
| Total Cover: | 0 | | | That Are OBL, FACW, or FAC: 50% (A/ | /B) |
| Sepling/Shrub Stratum | | | | · · · · · · · · · · · · · · · · · · · | |
| 1. | | | | Prevalence Index worksheet: | |
| 2 | | | | Total % Cover of: Multiply by: | |
| 3 | | | | OBL species $0 \times 1 = 0$ | |
| 4 | | | | FACW species x 2 =0 | |
| 5 | | | · | FAC species x 3 = | |
| Total Cover: | | | | FACU species x 4 = | |
| Herb Stratum | | | | UPL species x 5 =0 | |
| 1. Hedera helix | 90 | Yes | NL | Column Totals: (A) (E | B) |
| 2. Rubus discolor | 50 | Yes | FACW | | · |
| 3. <u>Baccharis pilularis</u> | 10 | No | NL | Prevalence Index = B/A =0 | |
| 4 | | | | Hydrophytic Vegetation Indicators: | |
| 5 | | | | Dominance Test is >50% | |
| 6 | | | | Prevalence Index is ≤3.0 ¹ | |
| 7 | | | | Morphological Adaptations ¹ (Provide supporting | |
| 8. | | , | | data in Remarks or on a separate sheet) | |
| Total Cover: | 150 | | ********* | Wetland Non-Vascular Plants ¹ | |
| Woody Vine Stratum | | | | Problematic Hydrophytic Vegetation ¹ (Explain) | |
| 1 | | | | ¹ Indicators of hydric soil and wetland hydrology must | t |
| 2. | | | | be present. | |
| Total Cover: | 0 | | | Hydrophytic | |
| % Bare Ground in Herb Stratum0 | | | | Vegetation Present? Yes No No | |
| Remarks: | | · · · · · | | u <mark>n − − − − − − − − − − − − − − − − − − −</mark> | |
| | | | | | |
| | | | | | |
| | | | | | |

| SĆ | ่วเเ |
|----|------|
| | |

| Profile Descri | ption: (Describe t | to the dep | th needed to docur | nent the | Indicator | or confirm | the absence | e of indicators.) | | | |
|---|--|--------------------------|--|--|------------------------|--|--|--|--|--|--|
| Depth _ | Matrix | | | x Feature | | | | | | | |
| (inches) | Color (moist) | | Color (moist) | % | <u>Type'</u> | | Texture | Remarks | | | |
| 0-2 | 10YR 3/2 | | 14 | •••••••••••••••••••••••••••••••••••••• | | ***** | organic | organic layer | | | |
| 2-7 | 7.5YR 3/3 | | ····· | | | | silty clay | 4-" angular rocks | | | |
| 7-8 7 | 7.5YR 3/3 | | | | | | pebble | layer of 1-" pebbles | | | |
| 8-19 | 7.5YR 3/3 | | 10YR 5/6 | 15 | RM | <u>M</u> | silty clay | few yellow mottles | | | |
| | | | | · ······ | | | | | | | |
| | | N-4 | , | | | | | • • • • • • • • • • • • • • • • • • • | | | |
| | | | | | | | an a | | | | |
| | ······ | | ······································ | 2 | | •••••••••••••••••••••••••••••••••••••• | | | | | |
| | centration, D=Depl dicators: (Applica | | =Reduced Matrix. LRRs, unless other | | | e Lining, K | | nnel, M=Matrix. ors for Problematic Hydric Solls ³ : | | | |
| Histosol (A | | | Sandy Redox (| | | | | m Muck (A10) | | | |
| Histic Epip | , | | Stripped Matrix | • | | | | d Parent Material (TF2) | | | |
| Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1 | | | | | | | | | | | |
| | Sulfide (A4) | | Loamy Gleyed | | | , | | | | | |
| Depleted E | Below Dark Surface | e (A11) | Depleted Matrix | (F3) | | | | | | | |
| Thick Dark | surface (A12) | | Redox Dark Su | rface (F6 |) | | | | | | |
| Sandy Mu | cky Mineral (S1) | | Depleted Dark | Surface (| F7) | | ³ Indicate | ors of hydrophytic vegetation and | | | |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) | | | | | | | wetla | and hydrology must be present. | | | |
| Restrictive La | yer (if present): | | | | | | | | | | |
| | | | | | | | | galatina utaratemininy ginatawa ana ana | | | |
| | es); | | | | | | Hydric Sol | I Present? Yes No | | | |
| Remarks: | | | | | | | | | | | |
| this area likel The presence | y sloped down to tr e of reduced matrix | ne river an deeper in | d probably flooded n pit is suggestive of t | he Soll M | ientiy. Iap Unit Na | mes, whic | h are listed as | s hydric soils. | | | |
| HYDROLOG | Y | | | | | | | | | | |
| Wetland Hydro | ology Indicators: | | ····· , ··· , ··· , ··· , ··· , | | | | Second | lary indicators (2 or more required) | | | |
| Primary Indicat | tors (any one indica | ator is suff | cient) | | | | Wa | ter-Stained Leaves (B9) (NW coast) | | | |
| Surface W | ater (A1) | | Water-Staine | d Leaves | ; (B9) (exc | ept NW co | oast) Spa | arsely Vegetated Concave Surface (B8) | | | |
| High Wate | r Table (A2) | | Salt Crust (B | 11) | | | Drainage Patterns (B10) | | | | |
| Saturation | (A3) | | Aquatic inve | rtebrates | (B13) | | Dry-Season Water Table (C2) | | | | |
| Water Mar | ks (B 1) | | Hydrogen Su | lifide Ödo | vr (C1) | | Sat | turation Visible on Aerial Imagery (C9) | | | |
| Sediment I | Deposits (B2) | | Oxidized Rhi | zosphere | s along Liv | ing Roots | (C3) Geo | omorphic Position (D2) | | | |
| 🖌 Drift Depos | sits (B3) | | Presence of | Reduced | Iron (C4) | | Sha | allow Aquitard (D3) | | | |
| Algal Mat d | or Crust (B4) | | Recent Iron I | Reductior | in Tilled S | oiis (C6) | Fro | ost-Heave Hummocks (D4) | | | |
| Iron Depos | sits (B5) | | Stunted or S | tressed P | lants (D1) | (LRR A) | FA(| C-Neutral Test (D5) | | | |
| Surface So | oil Cracks (B6) | | Other (Expla | in in Rem | arks) | | Rai | ised Ant Mounds (D6) (LRR A) | | | |
| Inundation | Visible on Aerial I | magery (B | 7) | | | | | | | | |
| Field Observa | tions: | | | | | | | | | | |
| Surface Water | Present? Yo | es | No 🔽 Depth (in | ches): | | _ | | | | | |
| Water Table Pr | resent? Yo | es | No 🔽 Depth (in | ches): | | | | | | | |
| Saturation Pres | | es | No 🔽 Depth (in | ches): | | _ Wetl | and Hydrolog | gy Present? Yes 🔽 No 🦲 | | | |
| (includes capill Describe Reco | | gauge, m | onitoring well, aerial | photos, p | revious ins | pections), | if available: | | | | |
| | | | | | | | | | | | |
| Remarks: | · · · · | - | | | | | | | | | |
| Pit dug to 20" | Seasonal floodin | lg is evide | nt by the presence o | fseveral | sizes of wo | ody debris | i. | | | | |
| | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| | | | | | | | | | | | |

| Project/Site: <u>Navarro Inn</u> | | City/County | : Albion / | Mendocino | Sampling Date:01/16/2008 |
|---|-------------|--------------|---------------------------|---|---|
| Applicant/Owner: California State Parks | | | | State: CA | Sampling Point: 7 |
| Investigator(s): Bill Maslach | | Section, To | wnship, Ra | nge: <u>Sec. 04; T 15N; R 1</u> | 7 W |
| Landform (hillslope, terrace, etc.): hillslope | | | | | |
| Subregion (LRR): | Lat: 123 | 45' 28.7" | | Long: 39 11' 25.7" | Datum: |
| Soli Map Unit Name: Dystropepts, 30 to 75% slope (not a hydrogeneration) | | | | | |
| Are climatic / hydrologic conditions on the site typical for this | | | | | |
| Are Vegetation No, Soll No, or Hydrology No sig | | | | | present? Yes <u>IV</u> No |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> na | | | | eded, explain any answe | |
| SUMMARY OF FINDINGS – Attach site map s | | | | | |
| Hydrophytic Vegetation Present? Yes | | | | | |
| Hydric Soil Present? Yes No | 17 | | ie Samplec in a Wetlai | | No |
| Wetland Hydrology Present? Yes No | | WILL | nn a vvetia | | NO is |
| Remarks: This is a broadly mapped unit consisting mostly of soils of I | Franciscan | denosit st | een sinnes | and a vegetation cover o | of scrub (Baccharis pilularis) and |
| Isolated trees and stands of trees (Ables grandis & Pinus n | | | | | a and a containe pirentities area |
| | | | | | |
| VEGETATION | | | | | |
| | Absolute | Dominant | | Dominance Test work | sheet; |
| | | Species? | | Number of Dominant S | pecies |
| 1 | | | | That Are OBL, FACW, | or FAC: (A) |
| 2 | | | | Total Number of Domin | A |
| 3 | <u></u> | | ***** | Species Across All Stra | ata: (B) |
| 4 | | | | Percent of Dominant S | |
| Sapling/Shrub Stratum | | | | That Are OBL, FACW, | or FAC: (A/B) |
| 1. Baccharls pilularis | 30 | Yes | <u>NI</u> | Prevalence Index wor | ksheet: |
| 2 | | | | Total % Cover of: | Multiply by: |
| 3 | | | | OBL species 0 | x1=0 |
| 4. | | | | FACW species0 | x 2 =0 |
| 5. | | | | FAC species0 | x 3 = |
| Total Cover: | 30 | | | | x 4 = |
| Herb Stratum | 20 | Yes | KH. | | x5=0 |
| 1. Agrostis hallii 2. Artemesia douglasiana | 15 | Yes | FAC+ | Column Totals:0 | (A) <u>0</u> (B) |
| 3. Toxicodendron diversilobum | 15 | Yes | NI | Prevalence Index | = B/A = 0 |
| 4. Claytonia perfoliata | 10 | No | FACU | Hydrophytic Vegetatio | |
| 5. Dryopteris arguta | 10 | No | NI | Dominance Test is | |
| 6. Rubus ursinus | Ö | No | FAC+ | Prevalence Index i | s ≤3.0 ¹ |
| 7 | | 191 | ****** | Morphological Ada | ptations ¹ (Provide supporting |
| 8 | | | | data in Remark | s or on a separate sheet) |
| Total Cover: | | | | Wetland Non-Vasc | |
| Woody Vine Stratum | | | | | phytic Vegetation ¹ (Explain) |
| 1 | | | | Indicators of hydric sol be present. | I and wetland hydrology must |
| 2 | | | | | |
| Total Cover: | 0 | | | Hydrophytic Vegetation | |
| % Bare Ground in Herb Stratum | | | | | s No |
| Remarks: Although this sample site had Dryopteris arguta (NI), much indicator status. | h of the ma | ipped unit l | had Polystic | :hum munitum (FACU), w | hich shares the same wetland |

Sampling Point: _7_____

| Profile Desc | ription: (Describ | e to the depth | needed to docun | nent the in | dicator | or confirm | the absence | of Indicators.) |
|---|---|--------------------|--------------------------------|---|-------------------|--------------|----------------|---|
| Depth | Matrix | | | x Features | | | | |
| (inches) | Color (moist) | % | Color (moist) | | Type ¹ | | Texture | Remarks |
| 0 - 21 | 10YR 3/3 | | | **** | | | loamy clay | many 3+" angular rocks |
| | | | | | | | | |
| | | | | | | | | · |
| | | | | 41 - 169 - 199 - 199 - 199 | | | | |
| | | | | | | | | Minder , 4 |
| <u></u> | | | | | | | | |
| - | | | | | | | | |
| 47455 | | | - MSX | | | | | |
| | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=D | epletion, RM=F | Reduced Matrix. | ² Location: | PL=Por | e Linina. R | C=Root Chan | nel, M≕Matrix. |
| | | | RRs, unless other | | | | | ors for Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Sandy Redox (S | 3 5) | | | 2 cr | m Muck (A10) |
| | oipedon (A2) | - | Stripped Matrix | | | | Rec | Parent Material (TF2) |
| Black Hi | stic (A3) | - | Loamy Mucky N | | | MLRA 1) | Oth | er (Explain in Remarks) |
| | n Sulfide (A4) | - | _ Loamy Gleyed I | | | | | |
| | d Below Dark Surf | ace (A11) _ | Depleted Matrix | | | | | |
| | ark Surface (A12) | _ | Redox Dark Su | • • | 7 | | 3 and and | no of budenchudie constation and |
| | lucky Mineral (S1) Neyed Matrix (S4) | | Depleted Dark Redox Depress | |) | | | ors of hydrophytic vegetation and and hydrology must be present. |
| | Layer (If present): | | | | | | | |
| | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | | |
| • | ches): | | | | | | Hydric Soll | Present? Yes No V |
| Remarks: | | | | | | | | |
| | s, 30 to 75% slope | (not a hydric s | soil) | | | | | |
| o yan opopu | a, oo to i a ia alape | a (not a nyana a | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | , | | | | | | |
| HYDROLO | GY | | | | | | | |
| Wetland Hyd | drology indicator | s: | | | | | Second | ary Indicators (2 or more required) |
| Primary India | cators (any one inc | licator is suffici | ent) | | | | Wat | ter-Stained Leaves (B9) (NW coast) |
| Surface | Water (A1) | | Water-Staine | d Leaves (| B9) (exc | ept NW co | ast) Spa | arsely Vegetated Concave Surface (B8) |
| High Wa | iter Table (A2) | | Salt Crust (B | 11) | | | | inage Patterns (B10) |
| Saturatio | on (A3) | | Aquatic Inver | tebrates (E | 13) | | Dry | -Season Water Table (C2) |
| Water M | larks (B1) | | Hydrogen Su | lfide Odor | (C1) | | Sat | uration Visible on Aerial Imagery (C9) |
| Sedimer | nt Deposits (B2) | | Oxidized Rhi | zospheres | along Liv | ing Roots | (C3) Ged | pmorphic Position (D2) |
| Drift Dep | oosits (B3) | | Presence of I | Reduced Ir | on (C4) | | She | llow Aquitard (D3) |
| Algal Ma | at or Crust (B4) | | Recent Iron F | Reduction i | n Tilled S | ioils (C6) | Fro | st-Heave Hummocks (D4) |
| Iron Dep | oosits (B5) | | Stunted or St | ressed Pia | nts (D1) | (LRR A) | FAG | C-Neutral Test (D5) |
| Surface | Soil Cracks (B6) | | Other (Explai | n in Remai | rks) | | Rai | sed Ant Mounds (D6) (LRR A) |
| Inundatio | on Visible on Aeria | I Imagery (B7) | | | | | | |
| Field Obser | vations: | ##5205430##* | internet and | | | | | |
| Surface Wate | er Present? | Yes N | o V Depth (inc | :hes): | | | | |
| Water Table | Present? | Yes N | | :hes): | | | | |
| Saturation Pr | | Yes N | o 🔽 Depth (ind | ches): | | Wetla | and Hydrolog | y Present? Yes No |
| (includes cap | | | itaria - wall anglat | | uinun Inn | | if a wallables | |
| Describe Rei | COLUCU DALA (SILES | na yauye, mon | itoring well, aerial p | notos, pre | vious IIIS | pections), i | | |
| Domoska | | | | | | | | |
| Remarks: Upland. | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Project/Site: Navarro Inn | (| City/County | Albion / I | Mendocino | Sampling Dat | e: 01/16/2008 |
|--|-------------|----------------------|--------------------------|--|--|---------------------------|
| | | | | State: CA | | |
| Investigator(s): Bill Maslach | | | | | | |
| Landform (hillslope, terrace, etc.): beach & estuarine shorelin | | | | | | |
| Subregion (LRR): | | | | | | |
| Soil Map Unit Name: <u>Coastal Beaches (a hydric soil)</u> | | | | | | |
| Are climatic / hydrologic conditions on the site typical for this | | | | (If no, explain in | | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> sig | | | | Normal Circumstances' | | No [√ |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> na | - | | | eded, explain any answ | | |
| SUMMARY OF FINDINGS - Attach site map s | howing | samplin | g point l | ocations, transect | ts, important | features, etc. |
| Hudrin Soil Present? Vec | in Corps ju | with | e Sampled in a Wetlar | | Z No | AF- |
| VEGETATION | | | | ······ | | |
| | | Dominant Species? | | Dominance Test wor Number of Dominant | Species | |
| 1. | <u> </u> | | | That Are OBL, FACW | | (A) |
| 2 | | | <u> </u> | Total Number of Dom | | |
| 3 | | | | Species Across All St | rata: <u> </u> | (B) |
| Total Cover: | Q | | | Percent of Dominant | | (A/B) |
| Sapling/Shrub Stratum | | | | Prevalence Index wo | nrkchaat. | |
| 2 | | | | Total % Cover of: | | tiply by: |
| 3 | | | | OBL species 0 | | |
| 4 | | | | FACW species 0 | x2=_ | 0 |
| 5 | | | | FAC species0 | x 3 = | 0 |
| Total Cover: | 0 | | | FACU species 0 | x 4 = | |
| Herb Stratum 1. Plantago lanceolata | 2 | Vaa | FAC- | | x5=_ | |
| 1. Camissonia cheiranthifolia | | Yes Yes | NI | Column Totals: 0 | (A) | (B) |
| 3. Leontodon nudicaulis | 1 | Yes | NL | Prevalence Inde | x = B/A = | 0 |
| 4 | | *** | | Hydrophytic Vegetal | | |
| 5 | | | | Dominance Test | is >50% | |
| 6 | | | | Prevalence Index | : is ≤3.0 ¹ | |
| 7 | | | | Morphological Ad data in Remar | laptations ¹ (Provi ks or on a separ | ide supporting ate sheet) |
| 8Total Cover: | 4 | | | Wetland Non-Vas | scular Plants ¹ | |
| Woody Vine Stratum | • | | | Problematic Hydr | • | |
| 1 | | | | ¹ Indicators of hydric s be present. | oil and wetland h | ydrology must |
| 2Total Cover: | 0 | | | Hydrophytic Vegetation | Distance of | |
| % Bare Ground in Herb Stratum | | | | Present? Y | 'es No | |

Remarks:

Vegetation is very sparse on the coastal beach and estuarine shoreline.

Sampling Point: 8

| Profile Desc | ription: (Describe | to the depth | needed to docur | nent the ir | ndicator o | or confirm | the absence of | Indicators.) |
|------------------------------|--|---|--|-------------|-------------------|------------------|--------------------------------------|--|
| Depth | Matrix | | | x Features | | | | |
| (inches) | Color (moist) | | Color (moist) | % | Type ¹ | Loc ² | <u> </u> | Remarks |
| 24" | 10YR 6/4 | | 07778 | | | <u>`</u> | sandy | |
| | | | | | | | | |
| | | • • • • • • • • • • • • • • • • • • • | ······································ | | ******* | | Anoshie Internet and Andreas Andreas | |
| | • | to accesso and accesso | | - <u></u> | ······ | | | |
| | ····· | . | ····· | | | | | |
| | • <u>=,</u> | - | | • | , | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | ******* | | | |
| 17 | | | | 21 | | | | |
| | oncentration, D=Dep Indicators: (Applic | | | | | ELINING, RU | C=Root Channel | , M=Matrix. for Problematic Hydric Soils ³ : |
| - | , | | | | nu.) | | | - |
| Histosol | bipedon (A2) | | _ Sandy Redox (Stripped Matrix | | | | 2 cm M | arent Material (TF2) |
| Black Hi | | | _ Loamy Mucky N | |) (excent | MIRA 1) | | (Explain in Remarks) |
| | n Sulfide (A4) | | Loamy Gleyed | • | | | Outer (| |
| | Below Dark Surfac | e (A11) | Depleted Matrix | | | | | |
| | ark Surface (A12) | | _ Redox Dark Su | • | | | | |
| | lucky Mineral (S1) | | _ Depleted Dark | | 7) | | ³ Indicators | of hydrophytic vegetation and |
| | eleyed Matrix (S4) | | _ Redox Depress | ions (F8) | | | wetland | hydrology must be present. |
| Restrictive I | _ayer (if present): | | | | | | | |
| Type: | | | a | | | | | efensional and a second s |
| Depth (in | ches): | | | | | | Hydric Soil Pr | resent? Yes 🖌 No |
| Remarks: | | | | | | | | |
| Soil (Coast | al Beaches) is listed | on the Nation | al List of Hydric S | ioils. | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLO | ~v | | | | | | | |
| | | · · · | | | | . | ~ | |
| | drology Indicators: | | | | | | | Indicators (2 or more required) |
| | cators (any one indic | ator is sufficie | | | | · | | Stained Leaves (B9) (NW coast) |
| | Water (A1) | | Water-Staine | | (B9) (exce | opt NW co | | ely Vegetated Concave Surface (B8) |
| | ter Table (A2) | | Salt Crust (B | | | | | ge Patterns (B10) |
| Saturatio | . , | | Aquatic Inver | , | , | | | eason Water Table (C2) |
| | larks (B1) | | Hydrogen Su | | | | | tion Visible on Aerial Imagery (C9) |
| | nt Deposits (B2) | | Oxidized Rhi | - | 4- | ing Roots (| | orphic Position (D2) |
| | posits (B3) | | Presence of | | | -11- (00) | | w Aquitard (D3) |
| | t or Crust (B4) | | Recent Iron I | | | | | Heave Hummocks (D4) |
| | oosits (B5) | | Stunted or SI | | | (LKK A) | | leutral Test (D5) |
| | Soil Cracks (B6) | | Other (Explai | in in Kema | rks) | | Kaised | i Ant Mounds (D6) (LRR A) |
| | on Visible on Aerial | magery (B7) | | p | | ····· | | |
| Field Obser | | protection . | | | | | | |
| Surface Wat | | 204 ¹⁰ 10-00 -000 | and which to WALCO | ches): | | | | |
| Water Table | | Same and a second se | | ches): | | | | An intrast galacies |
| Saturation P | | 'es No | Depth (in | ches): | | _ Wetla | ind Hydrology P | Present? Yes 🖌 No |
| (includes car Describe Re | corded Data (stream | asuae, monit | oring well, aerial i | photos. pre | vious insr | pections) i | favallable: | uitegalan |
| | | · | | | | ,, . | | |
| Remarks: | | | | | | | ···· | |
| | above high tide, but | mapped unit r | epresents all coas | stel beache | es and est | uarine sho | relines. | |
| | | •• | | | | | | |
| | | | | | | | | |
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| 1 | | | | | | | | |

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| Project/Site: Navarro Inn | City/County: Albion / Mendocino | _ Sampling Date: <u>01/16/2008</u> |
|--|---|------------------------------------|
| Applicant/Owner: California State Parks | State: CA | _ Sampling Point: 9 |
| Investigator(s): Bill Maslach | Section, Township, Range: Sec. 04; T 15N; R 1 | 17 W |
| Landform (hillslope, terrace, etc.): flat above estuary | Local relief (concave, convex, none): <u>none</u> | Slope (%): _0 |
| Subregion (LRR): Lat: 123 | 3 45' 29.0" Long: 39 11' 33.8" | Datum: |
| Soil Map Unit Name: Dystropepts, 30 to 75% slope (not a hydric soil) | NWI classifi | cation: Estuarine Scrub/Emergent |
| Are climatic / hydrologic conditions on the site typical for this time of ye | ear? Yes 📝 No 🦾 (If no, explain in I | Remarks.) |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly | disturbed? Are "Normal Circumstances" | present? Yes 🔽 No 🧾 |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally pro | oblematic? (If needed, explain any answe | ers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing | sampling point locations, transect | s, important features, etc. |
| Hydrophytic Vegetation Present? Yes No Hydric Soft Present? Yes No Wetland Hydrology Present? Yes No | Is the Sampled Area within a Wetland? Yes | No |
| Remarks: | | |

VEGETATION

| | Absolute | Dominant | | Dominance Test worksheet: |
|--|----------------|----------------------------|----------|---|
| Tree Stratum (Use scientific names.) | <u>% Cover</u> | Species? | Status | Number of Dominant Species |
| 1 | | | | That Are OBL, FACW, or FAC: (A) |
| 2 | | | | Tratel blomb on of Dansin sub |
| 3 | | | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | | |
| Total Cover: | | | * | Percent of Dominant Species |
| Sapling/Shrub Stratum | | | | That Are OBL, FACW, or FAC: (A/B) |
| 1 Salix lasiolepis | 80 | Yes | FACW | Prevalence Index worksheet: |
| n Vince major | 15 | No | NI | Total % Cover of:Multiply by: |
| | 10 | No | NI | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |
| 3. <u>Beccharis pilularis</u> | | | | |
| 4. <u>Rubus ursinus</u> | 5 | No | FAC+ | FACW species $x 2 = 0$ |
| 5 | · | | | FAC species $x =$ |
| Total Cover: | 110 | | | FACU species x 4 = |
| Herb Stratum | | | | UPL species x 5 =0 |
| 1 | | | | Column Totals: 0 (A) 0 (B) |
| 2. | | /- <u></u> | | |
| 3 | | | | Prevalence Index = B/A =0 |
| 4 | | | | Hydrophytic Vegetation indicators: |
| 5 | | | | Dominance Test Is >50% |
| 6 | | | | Prevalence Index is ≤3.0 ¹ |
| | | | | Morphological Adaptations ¹ (Provide supporting |
| 7, | | | | data in Remarks or on a separate sheet) |
| 8 | | | | Wetland Non-Vascular Plants ¹ |
| Total Cover: Woody Vine Stratum | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1 | | | b | be present. |
| 2 | | duebed and an and a second | #4 | |
| Total Cover: | | | | Hydrophytic Vegetation |
| % Bare Ground in Herb Stratum | | | | Present? Yes V. No |
| Remarks: | | | | |
| Willow stands at the toe of the slope above the beaches. | | | | |
| | | | | |
| | | | | |
| | | | | |

| Profile Desc | ription: (Describ | e to the depth | needed to docun | nent the ir | idicator o | r confirm | the absence | of indicators.) | |
|--|---|----------------------------------|---|------------------------|------------------------------|---|-----------------------|--|-----|
| Depth | Matrix | | | <u>k Features</u> | | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type' | Loc ² | Texture | Remarks | |
| 0 - 1 | 10YR 2/2 | aturtaj incomenzationen de areas | | <u></u> | | | organic | organic duff horizon | _ |
| 1 - 19 | 10YR 3/2 | | | vaanainininin | n terretarian and the second | | loamy clay | 6+" angular rocks | _ |
| | | | | | | | | | |
| | | | - 10 | | | | | ······································ | - |
| <i></i> | | | | | | | | (| ~ |
| 105-01-50-0-1074-y-10-0-10-10-10-10-10-10-10-10-10-10-10-1 | | | | * | | | | | - |
| | N | | | | | | | 8 | - |
| | 10 | | 6-mm-pin-mer-1 | **** | | | 12 | | _ |
| | | | | | | | | | |
| ¹ Type: C=Co | oncentration, D=De | pletion, RM=Re | educed Matrix. | ² Location: | PL=Pore | Lining, R | C=Root Chanr | nel, M=Matrix. | - |
| Hydric Soil I | ndicators: (Appl | icable to all LR | | | | | | rs for Problematic Hydric Solis ³ : | |
| Histosol | (A1) | | _ Sandy Redox (S | 65) | | | 2 cn | n Muck (A10) | |
| Histic Ep | pipedon (A2) | | _ Strlpped Matrix | (S6) | | | | Parent Material (TF2) | |
| Black Hi | | | _ Loamy Mucky N | • | · · · | MLRA 1) | Oth | er (Explain in Remarks) | |
| | n Sulfide (A4) | | _ Loamy Gleyed I | |) I | | | | |
| | l Below Dark Surfe ark Surface (A12) | ice (A11) | Depleted Matrix Redox Dark Sur | | | | | | |
| | lucky Mineral (S1) | | Depleted Dark | • • | 7) | | ³ indicato | rs of hydrophytic vegetation and | |
| | leyed Matrix (S4) | | _ Redox Depress | • | • / | | | nd hydrology must be present. | |
| | ayer (If present): | | | | | | | | |
| Type: | | | | | | | | | |
| Depth (inc | ches): | | | | | | Hydric Soll | Present? Yes No | |
| Remarks: | | | | | | | 1 | | |
| | urs at the base of I | he hill, where th | e soil is not listed | as a hvdri | ic soil, the | road sepa | arates it's conn | ection with the willow stands on the | |
| | beach where the s | | | | | | | | |
| | | | | | | | | | - { |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | | | | | | | | | |
| - | trology Indicator | | | | | | | ry Indicators (2 or more required) | |
| | ators (any one ind | icator is sufficie | | quantum and a second | | Been and an | | er-Stained Leaves (B9) (NW coast) | |
| | Water (A1) | | Water-Staine | | (B9) (exce | pt NW co | | rsely Vegetated Concave Surface (B8) | |
| | ter Table (A2) | | Salt Crust (B | | | | | nage Patterns (B10) | |
| Saturatio | | | Aquatic Inver | | ' | | | Season Water Table (C2) | |
| | arks (B1) | | Hydrogen Su | | | n m m n n fa | | Iration Visible on Aerial Imagery (C9) | |
| | nt Deposits (B2) | | Oxidized Rhi | | - | ng Roots | | morphic Position (D2) | |
| | oosits (B3) It or Crust (B4) | | Presence of Recent Iron I | | | | | llow Aquitard (D3) it-Heave Hummocks (D4) | |
| | in of Crust (B4) iosits (B5) | | Stunted or St | | | • • | | -Neutral Test (D5) | |
| | Soil Cracks (B6) | | Other (Explai | | | unn <i>n</i>) | | ed Ant Mounds (D6) (LRR A) | |
| | on Visible on Aeria | l imagery (B7) | | | | | Annual Contractor | | |
| Field Obser | | | | | | 1 | | | |
| Surface Wate | | Yes No | Depth (in | thes): | 19 | | | | |
| Water Table | | ちょうけいるついだん | Depth (in | | 19 | - | | | |
| Saturation Pr | | Yes No | la har har har har har har har har har ha | | 19 | - Wetta | and Hydrology | y Present? Yes No 🗸 | |
| (includes cap | | 100 110 | | ///www. | | | ana nyarorog | 11030mm 103 | - |
| Describe Red | corded Data (strea | m gauge, monit | oring well, aerial (| photos, pre | evious Insp | ections), | if available: | | |
| | | | | | | | | | |
| Remarks: | | | | | | - | , | | |
| | | | | | | | | | |
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| | | | | | | | | | |

| Project/Site: Navarro Inn | City/0 | City/County: Albion / Mendocino Sampling Date: 01/ | | | | |
|--|--|--|-------------------|--------------------------|---------------|--|
| Applicant/Owner: California State Parks | | Sta | te: <u>CA</u> | Sampling Point: <u>1</u> | 0 | |
| Investigator(s): Bill Maslach | Secti | on, Township, Range: <u>Sec. (</u> | 04; T 15N; R 17 | W | | |
| Landform (hillslope, terrace, etc.): freshwater estuary | Loca | l relief (concave, convex, no | ne): none | Slope | e (%): _0 | |
| Subregion (LRR): | Lat: <u>123 45' 2</u> | 1.8" Long: <u>39</u> | 11' 41.9" | Datum | l: | |
| Soll Map Unit Name: Tropaguepts, 0 to 15% slope (a hydr | ic soil) | | _ NWI classifica | tion: Estuarine So | crub/Emergent | |
| Are climatic / hydrologic conditions on the site typical for th | nis time of year? Y | 'es 🔽 No 🦲 (If n | io, explain in Re | marks.) | | |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> | significantly distur | bed? Are "Normal Cit | rcumstances" pr | esent? Yes 🔽 | No | |
| Are Vegetation No, Soil No, or Hydrology No | naturally problem | atic? (If needed, expl | lain any answers | s in Remarks.) | | |
| SUMMARY OF FINDINGS - Attach site map | showing san | npling point locations | s, transects, | important fea | tures, etc. | |
| Hydric Soil Present? Yes | No 1 ⁰⁰⁰⁰⁻²⁰⁰⁰ No 1 ⁰⁰⁰⁰⁻²⁰⁰⁰ No 1 ⁰⁰⁰⁻²⁰⁰⁰ | is the Sampled Area within a Wetland? | Yes | No | | |
| Remarks: | | ferrande and a construction of the construction of | | | | |
| | | | | | | |
| | | | | | | |

VEGETATION

| | Absolute | Dominant | | Dominance Test worksheet: | |
|---|--|--|------------------------------|---|-------|
| Tree Stratum (Use scientific names.) 1 | | | | Number of Dominant Species That Are OBL, FACW, or FAC: | (A) |
| 2 3 | | | | Total Number of Dominant Species Across All Strata: | (B) |
| 4 Total Cover: Sapling/Shrub Stratum | | | . <u></u> | Percent of Dominant Species | (A/B) |
| 1, Typha latifolia | 30 | Yes | OBL | Prevalence Index worksheet: | |
| 2. Scirpus microcarpus | 40 | Yes | OBL | Total % Cover of: Multiply by: | |
| 3. | | | | OBL species 0 x 1 = | - |
| 4 | | | | FACW species x 2 = | |
| 5 | | | | FAC species x 3 = | - |
| Total Cover: | | | nyanasa masa di kalendari da | FACU species $0 \times 4 = 0$ | |
| Herb Stratum | | | | UPL species x5 = | _ |
| 1 | | - | | Column Totals: (A) | - |
| 2 | | | | | . (0) |
| 3 | | | | Prevalence Index = B/A =0 | _ |
| 4 | | | | Hydrophytic Vegetation Indicators: | |
| 5 | | | | ✓ Dominance Test is >50% | |
| 6 | | | | Prevalence Index is ≤3.0 ¹ | |
| 7 | | | | Morphological Adaptations ¹ (Provide supporti | ing |
| 8, | adate in the second and a second | ****************** ****************** | | data in Remarks or on a separate sheet) | |
| Total Cover: | n | | | Wetland Non-Vascular Plants ¹ | |
| Woody Vine Stratum | | | | Problematic Hydrophytic Vegetation ¹ (Explain | 1) |
| 1 | | | | Indicators of hydric soil and wetland hydrology m | ust |
| 2. | | | | be present. | |
| Total Cover: % Bare Ground in Herb Stratum | 0 | <u> 1999 </u> | | Hydrophytic Vegetation Present? Yes 🗸 No | |
| Remarks: | | | | | |
| INTIGINA. | | | | | |
| | | | | | |
| | | | | | |

| Profile Description: (Describe to the depth needed to document the indicat | or or confirm the absence of indicators.) |
|--|---|
| Depth Matrix Redox Features | |
| (inches) Color (moist) % Color (moist) % Type | Loc ² Texture Remarks |
| 0 - 19 10YR 2/2 | silty muck |
| | |
| | |
| | манна жаландаранык жаландалалдарардараранандык жанады |
| | ······································ |
| | |
| | |
| | |
| | |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=I | Pore Lining, RC=Root Channel, M=Matrix. |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) | indicators for Problematic Hydric Solis ³ : |
| Histosol (A1) Sandy Redox (S5) | 2 cm Muck (A10) |
| Histic Epipedon (A2) | Red Parent Material (TF2) |
| Black Histic (A3) Loamy Mucky Mineral (F1) (exc | |
| Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) | |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) | |
| Thick Dark Surface (A12) Redox Dark Surface (F6) | |
| Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) | ³ Indicators of hydrophytic vegetation and |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) | wetland hydrology must be present. |
| Restrictive Layer (if present): | |
| Туре: | gtautza/1994czar jeseitzsarananan |
| Depth (inches): | Hydric Soil Present? Yes 🗸 No 📃 |
| Remarks: | |
| | |
| | |
| | |
| | |
| | |
| HYDROLOGY | |
| HYDROLOGY Wetland Hydrology Indicators: | Secondary Indicators (2 or more required) |
| Wetland Hydrology Indicators: | Secondary Indicators (2 or more required) |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) | Water-Stained Leaves (B9) (NW coast) |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) Water-Stained Leaves (B9) (etails) | Water-Stained Leaves (B9) (NW coast) xcept NW coast) Sparsely Vegetated Concave Surface (B8) |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — High Water Table (A2) Salt Crust (B11) | Water-Stained Leaves (B9) (NW coast) xcept NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — High Water Table (A2) ✓ Salt Crust (B11) ✓ Saturation (A3) | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — High Water Table (A2) ✓ Salt Crust (B11) ✓ Saturation (A3) — Water Marks (B1) | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — High Water Table (A2) ✓ Saturation (A3) — Water Marks (B1) ✓ Sediment Deposits (B2) | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — Water-Stained Leaves (B9) (e — High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) Oxidized Rhizospheres along ✓ Drift Deposits (B3) Presence of Reduced Iron (C2) | Water-Stained Leaves (B9) (NW coast) xcept NW coast) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Living Roots (C3) Geomorphic Position (D2) H) Shallow Aquitard (D3) |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — High Water Table (A2) ✓ Salt Crust (B11) ✓ Saturation (A3) — Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) ✓ Drift Deposits (B3) ✓ Presence of Reduced Iron (C ✓ Algal Mat or Crust (B4) | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — High Water Table (A2) ✓ Salt Crust (B11) ✓ Saturation (A3) Water Marks (B1) — ✓ Sediment Deposits (B2) ✓ Drift Deposits (B3) ✓ Presence of Reduced Iron (CC) ✓ Algal Mat or Crust (B4) | |
| Wetland Hydrology Indicators: Primary Indicators (any one Indicator is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Water Marks (B1) Aquatic Invertebrates (B13) ✓ Sediment Deposits (B2) ✓ Drift Deposits (B3) ✓ Presence of Reduced Iron (C Algal Mat or Crust (B4) Recent Iron Reduction in Tille _ Iron Deposits (B5) Stunted or Stressed Plants (D _ Surface Soil Cracks (B6) Other (Explain in Remarks) | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Water Marks (B1) Aquatic Invertebrates (B13) ✓ Sediment Deposits (B2) ✓ Drift Deposits (B3) ✓ Presence of Reduced Iron (C Algal Mat or Crust (B4) Recent Iron Reduction in Tille Iron Deposits (B5) Stunted or Stressed Plants (D Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) ✓ Drift Deposits (B3) ✓ Presence of Reduced Iron (C Algal Mat or Crust (B4) Recent Iron Reduction in Tille Iron Deposits (B5) Stunted or Stressed Plants (D Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Water Marks (B1) Aquatic Invertebrates (B13) ✓ Sediment Deposits (B2) ✓ Drift Deposits (B3) ✓ Drift Deposits (B3) ✓ Presence of Reduced Iron (C1) ✓ Surface Soil Crust (B4) Iron Deposits (B5) Stunted or Stressed Plants (D2) Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No | |
| Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient) ✓ Surface Water (A1) — Water-Stained Leaves (B9) (e High Water Table (A2) | Water-Stained Leaves (B9) (NW coast) xcept NW coast) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Living Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) d Soils (C6) Frost-Heave Hummocks (D4) 1) (LRR A) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) — Water-Stained Leaves (B9) (e High Water Table (A2) | |
| Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient) ✓ Surface Water (A1) — Water-Stained Leaves (B9) (e High Water Table (A2) | Water-Stained Leaves (B9) (NW coast) xcept NW coast) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Living Roots (C3) Geomorphic Position (D2)) Shallow Aquitard (D3) d Soils (C6) Frost-Heave Hummocks (D4) 1) (LRR A) Kaised Ant Mounds (D6) (LRR A) Wetland Hydrology Present? Yes V No |
| Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) Oxidized Rhizospheres along ✓ Drift Deposits (B3) Presence of Reduced Iron (C Algal Mat or Crust (B4) Recent Iron Reduction in Tille Iron Deposits (B5) Stunted or Stressed Plants (D Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Field Observations: Yes No Depth (inches): 1 Saturation Present? Yes No Depth (inches): 1 Saturation Present? Yes No Depth (inches): 1 | |
| Wetland Hydrology Indicators: Primary Indicators (any one Indicator Is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) Oxidized Rhizospheres along ✓ Drift Deposits (B3) Presence of Reduced Iron (C Algal Mat or Crust (B4) Recent Iron Reduction in Tille Iron Deposits (B5) Stunted or Stressed Plants (D Surface Soil Cracks (B6) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Field Observations: Yes No Depth (inches): 1 Saturation Present? Yes No Depth (inches): 1 Saturation Present? Yes No Depth (inches): 1 | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Water Marks (B1) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) Oxidized Rhizospheres along ✓ Drift Deposits (B3) Presence of Reduced Iron (C | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Water Marks (B1) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) Oxidized Rhizospheres along ✓ Drift Deposits (B3) Presence of Reduced Iron (C | |
| Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient) ✓ Surface Water (A1) High Water Table (A2) Salt Crust (B11) ✓ Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) Hydrogen Sulfide Odor (C1) ✓ Sediment Deposits (B2) Oxidized Rhizospheres along ✓ Drift Deposits (B3) Presence of Reduced Iron (C Algal Mat or Crust (B4) Recent Iron Reduction in Tille Iron Deposits (B5) Stunted or Stressed Plants (D Iron Deposits (B5) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Depth (inches): Field Observations: Yes No Surface Water Present? Yes No Yes No Depth (inches): Includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous | Water-Stained Leaves (B9) (NW coast) xcept NW coast) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Living Roots (C3) Geomorphic Position (D2)) Shallow Aquitard (D3) d Soils (C6) Frost-Heave Hummocks (D4) 1) (LRR A) Kaised Ant Mounds (D6) (LRR A) Wetland Hydrology Present? Yes V No |

| Project/Site: <u>Navarro Inn</u> | C | City/County | Albion / | Mendocino | Sampling Date: 01/16/2008 |
|--|--|--------------|--|--|---|
| Applicant/Owner: California State Parks | | | •••••••••••••••••••••••••••••••••••••• | State: CA | Sampling Point: <u>11</u> |
| Investigator(s): Bill Maslach | | Section, To | wnship, Ra | nge: <u>Sec. 04; T 15N; R 1</u> | 7 W |
| Landform (hillslope, terrace, etc.): freshwater estuary | | Local relief | (concave, | convex, none): <u>none</u> | Slope (%): 0 |
| Subregion (LRR): | Lat: 123 | 45' 20.5" | | Long: <u>39 11' 41.7"</u> | Datum: |
| Soll Map Unit Name: Tropaquepts, 0 to 15% slope (a hydric | | | | | |
| Are climatic / hydrologic conditions on the site typical for this | | | | | |
| Are Vegetation <u>No</u> , Soil <u>Yes</u> , or Hydrology <u>No</u> si | - | | | | present? Yes_IV No |
| Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> n | | | | eded, explain any answe | |
| SUMMARY OF FINDINGS – Attach site map s | | | | | |
| Hydrophytic Vegetation Present? Yes | | | | | |
| Hydric Soil Present? Ves No | and the second s | | e Sampleo | | No |
| Wetland Hydrology Present? Yes | | WITT | in a Wetlai | iar 185 <u>(</u> | NO <u></u> |
| Remarks: Soil along road has greater affinity to adjacent soil type, Dy residence site preparation, and the sample pit being taken | | | | | |
| VEGETATION | | | | | |
| | Absolute | Dominant | | Dominance Test work | sheet: |
| <u>Tree Stratum</u> (Use scientific names.) 1. <i>Plantanus sp.</i> | <u>% Cover</u> 20 | Yes | <u>Status</u> NL | Number of Dominant S | |
| | <u></u> | , | | That Are OBL, FACW, | or FAC: _' (A) |
| 2 3 | | | | Total Number of Domin Species Across All Stra | 4 |
| 4 | · | | | opecies Across Air ora | (D) |
| Total Cover: | 20 | | | Percent of Dominant Sp That Are OBL, FACW, | |
| Sepling/Shrub Stratum 1. Anthoxanthum odoratum | 20 | Yes | FACU | Desculaves index was | frah Ai |
| 2. Hoicus lanatus | 20 | Yes | FAC | Prevalence Index work Total % Cover of: | |
| 3. Hypochaeris radicata | | Yes | NI | | x 1 = 0 |
| 4 | | | | | $x^2 = 0$ |
| 5 | t | | | | x3 = 0 |
| Total Cover: | 50 | | | | x 4 = 0 |
| Herb Stratum | | | | | x 5 = 0 |
| 1 | | | | Column Totals: 0 | (A) <u>0</u> (B) |
| 2 | | |) | | 0 |
| 3 | | · | | Prevalence Index | |
| 4 | . <u> </u> | | - | Hydrophytic Vegetatic | |
| 5 | | | | Dominance Test is Prevalence Index is | |
| 6 | | | | | ptations ¹ (Provide supporting |
| 7 | | | | data in Remarks | s or on a separate sheet) |
| 8 | | | | Wetland Non-Vasc | ular Plants ¹ |
| Total Cover: Woody Vine Stratum | | | | Problematic Hydrop | phytic Vegetation ¹ (Explain) |
| 1 | | | | - | I and wetland hydrology must |
| 2 | **** | | | be present. | |
| Total Cover: | | | | Hydrophytic Vegetation | Parionie |
| % Bare Ground in Herb Stratum | ··· | | | Present? Ye | sNo |
| Remarks: Adjacent stands of eucalyptus were included in this mapp | ing unit. | | | | |
| | | | | | |

| Profile Descript | ion: (Describe | to the dep | th needed to docu | ment the i | ndicator | or confirm | the absence of ind | licators.) | | | |
|--|---------------------------------|------------------|----------------------------|--|-------------------|--|---|---|--|--|--|
| Depth | Matrix | | | ox Features | | | | | | | |
| advicent restance of the second | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | | | |
| 0-19 10 | YR 3/4 | | | | | | loamy clay | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | ······································ | | <u></u> | | ** | | | |
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| 10-11-11-11-11-11-11-11-11-11-11-11-11-1 | | | | | | | | | | | |
| | A | | | | | | | | | | |
| | | | | | | | | | | | |
| ¹ Type: C=Conce | entration, D=De | pletion. RM: | Reduced Matrix. | ² Location | : PL=Por | E Linina. R | C=Root Channel, M= | =Matrix. | | | |
| | | | LRRs, unless oth | | | | | Problematic Hydrid | : Soils ³ : | | |
| Histosol (A1) |) | | Sandy Redox | (S5) | | | 2 cm Mucl | k (A10) | | | |
| Histic Epiped | don (A2) | | Stripped Matri | x (S6) | | | Red Parer | nt Material (TF2) | | | |
| Black Histic | (A3) | | Loamy Mucky | - | , | MLRA 1) | Other (Exp | plain in Remarks) | | | |
| Hydrogen St | , , | | Loamy Gleyer | |) | | | | | | |
| | low Dark Surfa | ce (A11) | Depleted Matr | • • | | | | | | | |
| | Surface (A12) | | Redox Dark S | | 71 | | ³ Indiantara of h | u drawhy dia ya antalia | n and | | |
| | y Mineral (S1) d Matrix (S4) | | Depleted Dark Redox Depres | | () | | | rydrophytic vegetatio drology must be pres | | | |
| Restrictive Laye | | | Nedex Depres | | | | | alongy made be pres | Unit. | | |
| | | | | | | | | | | | |
| | ;): | | | | | | Hydric Soll Prese | ent? Yes | No | | |
| Remarks: | <i></i> | | | | | e tout | nyuno con ritore | | | | |
| reornarias. | | | | | | | | | 1 | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| HYDROLOGY | | | | | | | | | | | |
| Wetland Hydrol | ogy Indicators | 4 | | | | | Secondary Ind | icators (2 or more re | quired) | | |
| Primary Indicator | rs (any one indi | cator is suff | cient) | - eller | | With a start of the start of th | Water-Sta | ined Leaves (B9) (N | W coast) | | |
| Surface Wat | er (A1) | | Water-Stain | ed Leaves | (B9) (exc | ept NW co | ast) Sparsely \ | Vegetated Concave 8 | Surface (B8) | | |
| High Water | Table (A2) | | Salt Crust (| B11) | | | Drainage I | Patterns (B10) | | | |
| Saturation (/ | 43) | | Aquatic Inve | ertebrates (| B13) | | Dry-Seaso | on Water Table (C2) | | | |
| Water Marks | s (B1) | | Hydrogen S | ulfide Odor | (C1) | | Saturation Visible on Aerial Imagery (C9) | | | | |
| Sediment De | eposits (B2) | | Oxidized RI | nizospheres | along Liv | ing Roots | (C3) Geomorph | nic Position (D2) | | | |
| Drift Deposit | s (B3) | | Presence of | FReduced I | ron (C4) | | Shallow A | quitard (D3) | | | |
| Algal Mat or | Crust (B4) | | Recent Iron | Reduction | in Tilled S | olls (C6) | Frost-Hea | ve Hummocks (D4) | (| | |
| Iron Deposit | | | Stunted or 8 | | | (LRR A) | | ral Test (D5) | | | |
| Surface Soil | | | Other (Expl | ain in Reme | urks) | | Raised An | t Mounds (D6) (LRR | A) | | |
| | isible on Aerial | Imagery (B | 7) | | | | | | | | |
| Field Observation | ons: | (CREATING) | Kunzes. | | | | | |) | | |
| Surface Water P | resent? | All characterist | e 0.165-0.00 | nches): | | | | | | | |
| Water Table Pres | sent? | Yes | | nches): | | | | former manual second | 1074200000000000000000000000000000000000 | | |
| Saturation Prese | | Yes | No 🔽 Depth (i | nches): | | Wetla | and Hydrology Pres | sent? Yes | No | | |
| (includes capillar | | | mitoring well, aerial | nhotos pri | Nousins | nections) | if evallable | | | | |
| Describe Record | CO Data (ali cal | n yeeye, m | Automig won, avna | prioros, pri | 91003 [[]3] | pecetoria), | | | | | |
| Domorkov | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | |
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