

City of Gold Beach
Local Wetlands and Riparian Inventories

Prepared for

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TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION.....	1
1.1 Report Format.....	2
2.0 DEFINITIONS.....	3
3.0 PROJECT METHODOLOGY.....	8
3.1 Public Involvement.....	8
3.2 Local Wetlands Inventory Methodology.....	8
3.2.1 Routine Off-site Determination.....	8
3.2.2 Routine On-site Determination.....	8
3.3 Wetland Quality Assessment.....	9
3.3.1 <i>The Oregon Freshwater Wetland Assessment Methodology</i>	9
3.3.2 Wetlands of Special Interest for Protection.....	10
3.3.3 Field Methodology.....	10
3.3.4 Office Assessment.....	10
3.4 Riparian Inventory.....	11
3.4.1 Urban Riparian Inventory and Assessment Guide.....	11
3.4.2 Riparian Assessment.....	12
3.4.3 Riparian Functions.....	12
4.0 CARTOGRAPHY.....	14
5.0 STAFF QUALIFICATIONS.....	14
6.0 STUDY AREA CHARACTERISTICS.....	16
6.1 Setting.....	16
6.1.1 Culture and Industry.....	16
6.2 Topography.....	16
6.3 Hydrology.....	17
6.3.1 Hydrologic Features of the Gold Beach Study Area.....	17
6.3.2 Hydrologic Basin Designation.....	18
6.3.3 Hydrologic Indicators.....	18
6.4 Soils.....	18
6.5 Vegetation.....	19
6.5.1 Overview.....	19
6.5.2 Local Vegetation Communities.....	20
6.5.3 Wetland and Upland Indicator Species.....	21

TABLE OF CONTENTS (continued)

	<u>Page</u>
7.0 LWI DISCUSSION AND CONCLUSIONS.....	22
7.1 U.S. Fish & Wildlife Service National Wetland Inventory.....	22
7.2 Local Wetland Inventory Results.....	22
7.2.1 Wetland Acreage and Distribution.....	22
7.2.2 Wetland Classification.....	23
7.3 Oregon Freshwater Wetland Assessment Methodology Results.....	25
7.3.1 Wetland Quality Assessment.....	25
7.3.2 Wetlands of Special Interest for Protection.....	29
8.0 SIGNIFICANT WETLANDS DETERMINATION.....	29
8.1 Distinction between Goals 5 and 17 Areas.....	29
8.2 Goal 5 Locally Significant Wetlands Criteria.....	29
8.3 Applying Significant Wetland Criteria to the LWI Study Area.....	31
8.3.1 Goal 5 Significant Wetlands.....	31
8.4 Goal 17 Significant Wetlands (Major Marsh) Criteria.....	31
8.4.1 Goal 17 Major Marshes.....	33
9.0 RIPARIAN INVENTORY RESULTS.....	33
9.1 Location, Width, and Quality of Riparian Areas.....	33
9.2 Riparian Acreage and Distribution.....	34
9.3 Riparian Assessment Results.....	35
10.0 PROJECT SUMMARY.....	37
11.0 REFERENCES.....	39
APPENDIX A: Wetland Characterization Sheets	
APPENDIX B: Wetland Determination Data Forms	
APPENDIX C: OFWAM Data and Results	
APPENDIX D: Locally Significant Wetland / Major Marsh Determination Sheets	
APPENDIX E: Riparian Assessment Forms	
APPENDIX F: Plant List	
APPENDIX G: Draft Natural Resource Ordinance	

TABLES

	<u>Page</u>
Table 1. Hydrologic Basins and Acreage for the City of Gold Beach Local Wetlands and Riparian Inventories.....	18
Table 2. Soils Mapped Within the Gold Beach LWI Study Area	18
Table 3. Wetland Indicator Codes and Status.....	22
Table 4. Wetland Areas within Each Basin for the Gold Beach LWI.....	23
Table 5. Types of Wetlands Within the Gold Beach LWI Study Area	23
Table 6. Cowardin Classification of all Wetlands Identified in the Gold Beach LWI.....	24
Table 7. Summary of Wetlands Within Goal 5 and Goal 17 Areas	25
Table 8. Key to the Oregon Freshwater Wetland Assessment Methodology Numerical Ranking	27
Table 9. Oregon Freshwater Wetland Assessment Methodology Numerical Ranking Results for the Sutherlin LWI.....	28
Table 10. Wetlands of Special Interest for Protection.....	29
Table 11. Criteria for Determining Goal 5 Locally Significant Wetlands	30
Table 12. Goal 5 Wetlands and Locally Significant Wetlands in the Gold Beach LWI.....	31
Table 13. Criteria for Determining Major Marshes Within the Goal 17 Planning Area of Gold Beach.....	32
Table 14. Goal 17 Wetlands and Major Marshes in the Gold Beach LWI.....	33
Table 15. Riparian Corridors and Their Widths for the Gold Beach Riparian Inventory	34
Table 16. Summary of Gold Beach's Riparian Functional Assessments.....	36

1.0 INTRODUCTION

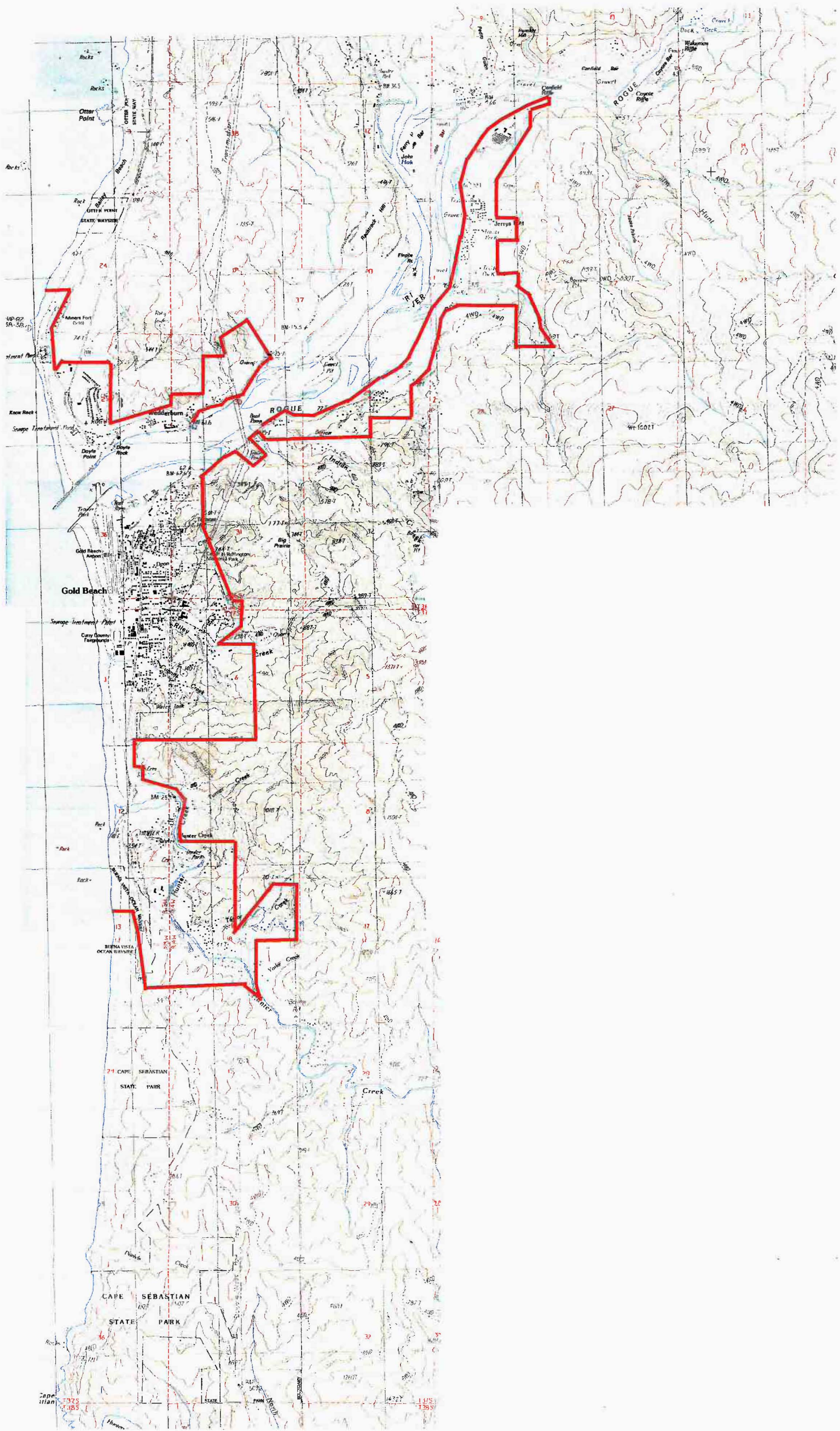
The City of Gold Beach (City), through a grant from the Department of Land Conservation and Development (Grant #PR-R-01-81), hired Pacific Habitat Services, Inc. (PHS) to conduct a Local Wetlands Inventory (LWI) and Riparian Inventory for an approximately 2,466-acre study area located within the City's Urban Growth Boundary (UGB). The UGB includes lands east and west of Highway 101 and north and south of the Rogue River. The goal of the study is to address the requirements of Statewide Planning Goal 5 (*Natural Resources, Scenic and Historic Areas, and Open Spaces*), and Goal 17 (*Coastal Shorelands*) Oregon Administrative Rule (OAR) Section 660, Division 23. In addition, PHS prepared a draft ordinance to protect significant natural resources (i.e. Locally Significant Wetlands, Major Marshes, riparian corridors, and riparian vegetation).

The objective of Goal 5 is to "protect natural resources and conserve scenic, historic and open space resources for present and future generations." Goal 17 specifically addresses coastal shorelands. It is intended "to conserve, protect, where appropriate, develop and where appropriate restore the resources and benefits of all coastal shorelands, recognizing their value for protection and maintenance of water quality, fish and wildlife habitat, water-dependent uses, economic resources and recreation and aesthetics." Goal 17 applies to an area called the coastal shorelands planning area, which is generally all lands bordering the ocean, estuaries, and coastal lakes, and lands west of Highway 101.

Specifically, the City hired PHS to determine the location and extent of wetlands; assess the quality of the wetlands; determine which of the Goal 5 wetlands are Locally Significant Wetlands according to state administrative rules (OAR 141-86-300-350); determine which of the Goal 17 wetlands are Major Marshes; inventory and assess the quality of riparian areas; and recommend draft Comprehensive Plan policies and ordinance language. This report presents the results of both the wetlands and the riparian inventories and assessments. A draft land use ordinance protecting significant natural resources is included as an appendix.

The study area is defined by the Urban Growth Boundary (UGB) of the City of Gold Beach. Gold Beach is located in the coastal area of Curry County, at the mouth of the Rogue River (Township 36 South, Range 14 West, Sections 15, 16, 21, 28, 29, 30, 31 and 32; Township 36 South, Range 15 West, Sections 25 and 36; Township 37 South, Range 14 West, Sections 5, 6, 7, 8, 17, and 18 and: Township 37 South, Range 15 West, Sections 1, 12, and 13, Willamette Meridian).

The UGB includes lands east and west of Highway 101 and north and south of the Rogue River. The northern portion of the study area includes Wedderburn and east along the Rogue River. The UGB extends south to Hunter Creek. Several perennial drainages are partially included in the study area, including the Rogue River, Saunders Creek, Indian Creek, Dean Creek, Riley Creek, Cunniff Creek, and Hunter Creek. The approximate study area is shown on Figure 1.



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FIGURE
1

Approximate study area boundary for the Gold Beach Local Wetlands and Riparian Inventories (USGS Cape Sebastian, Oregon, Provisional Edition, 1986; Gold Beach, Oregon, Provisional Edition, 1986; Signal Buttes, Oregon, Provisional Edition, 1986).



1.1 Report Format

This report begins by discussing the definitions used in the report and inventory (Section 2), followed by the methodology used to conduct the field work for the LWI and the riparian inventory, the wetland and riparian assessment methodology, and the methodology used to produce the maps for the inventory (Section 3). Section 4 discusses the project cartography; Section 5 presents the staff qualifications; Section 6 is the study area characteristics, such as the climate, topography, soils and vegetation; Section 7 discusses the Local Wetlands Inventory results, including wetland distribution, acreage, Cowardin classification and the results of the *Oregon Freshwater Wetland Assessment Methodology*; Section 8 presents the significant wetlands in the project area; Section 9 provides the results of the riparian inventory and assessment results; Section 10 summarizes the project; and Section 11 provides a list of the references used in the report.

There are seven appendices to the report. Appendix A contains the wetland characterization forms for each wetland, organized by wetland code. The characterization sheets note wetland location, tax lots, acreage, Cowardin classification, Hydrogeomorphic classification, soil series, wetland vegetation, adjacent upland vegetation, and other notes related to adjacent wetlands or hydrology. This form was completed for each wetland unit, regardless of whether it was an on-site or off-site determination. If it was an on-site determination, sample point numbers are noted. Locally significant wetlands and major marshes are also noted on the characterization form.

Appendix B contains the wetland determination data forms. These forms document the sample points taken for the on-site wetlands and adjacent uplands. Hydrology, soils, and dominant vegetation are recorded for each sample point in order to determine whether it is wetland or upland.

Appendix C is the *Oregon Freshwater Wetland Assessment Methodology* data and summary for each wetland unit. Each wetland's functions and conditions are assessed according to an established state methodology. The results and rationale are also summarized for each wetland unit. Appendix D contains the determination of significance for each wetland unit.

Appendix E contains the riparian characterization, riparian width forms, and the riparian assessment. Appendix F contains a listing of plant species encountered or expected within the project area. Appendix G is a draft natural resource protection ordinance.

2.0 DEFINITIONS

These terms helped define the methodology used for the City of Gold Beach Local Wetlands Inventory and may be referred to in this report.

1987 Manual

The Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1. (Environmental Laboratory 1987)

This manual is used by the Corps and DSL to document the location of wetlands within the State of Oregon. The 1987 manual provides technical criteria, field indicators, and recommended procedures to be used in determining whether an area is a jurisdictional wetland. Undisturbed areas require three criteria for them to be classified as wetland. These criteria are hydric soils, a dominance of hydrophytic vegetation, and wetland hydrology.

Cowardin Wetland Classification

The classification of wetlands as defined by plants, soils and the frequency of flooding is described in "Classification of wetlands and deepwater habitats of the United States." (Cowardin, et. al. 1979) See Palustrine System and Estuarine System.

Estuarine System

"All tidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens and all such wetlands that occur in tidal areas where salinity is greater than 0.5%. This includes areas traditionally called swamps, marshes, fens, as well as shallow, permanent or intermittent water bodies called ponds." (Cowardin et. al. 1979)

Goal 5

Goal 5 (OAR 660, Division 23) is intended "to protect natural resources, and conserve scenic and historic areas and open spaces." (DLCD, 1995)

Goal 17

Goal 17 specifically addresses coastal shorelands. It is intended "to conserve, protect, where appropriate, develop and where appropriate restore the resources and benefits of all coastal shorelands, recognizing their value for protection and maintenance of water quality, fish and wildlife habitat, water-dependent uses, economic resources and recreation and aesthetics." (DLCD, 1995)

Goal 17 applies to an area called the coastal shorelands planning area defined in the goal, which is generally all lands bordering the ocean, estuaries, and coastal lakes. Coastal shorelands include "natural or man-made riparian resources, especially vegetation necessary to stabilize the shoreline and to maintain water quality and temperature necessary for the maintenance of fish habitat and spawning areas." Coastal jurisdictions must inventory or identify coastal shorelands, including riparian resources.

Growing Season

"The portion of the year when soil temperatures at 19.7 inches below the soil surface are higher than biological zero (41° Fahrenheit, 5° Celsius)." (COE, 1987)

The growing season for any given site or location is determined from Natural Resource Conservation Service (NRCS, formerly the U.S. Soil Conservation Service SCS) data and information. The length of the season can be approximated from frost free days, based on air temperature.

Hydric Soils

"Soils which are ponded, flooded, or saturated for long enough during the growing season to develop anaerobic conditions." (USDA, SCS, 1985)

Periodic saturation of soils causes alternation of reduced and oxidized conditions which leads to the formation of redoximorphic features (gleying and mottling). Mineral hydric soils will be either gleyed or will have bright mottles and/or low matrix chroma. The redoximorphic feature known as gley is a result of greatly reduced soil conditions which result in a characteristic grayish, bluish or greenish soil color. The term mottling is used to describe areas of contrasting color within a soil matrix. The soil matrix is the portion of the soil layer that has the predominant color. Soils which have brightly colored mottles and a low matrix chroma are indicative of a fluctuating water table.

Hydric soil indicators include: organic content of greater than 50% by volume, sulfidic material or "rotten egg" smell, and/or presence of redoximorphic features and dark soil matrix, as determined by the use of a Munsell Soil Color Chart. This chart establishes the chroma, value and hue of soils based on comparison with color chips. Mineral hydric soils usually have a matrix chroma of 2 or less in mottled soils, or a matrix chroma of 1 or less in unmottled soils.

Hydrogeomorphic (HGM) Wetland Classification

A method of assessing wetlands using the physical, chemical, and biological functions of wetlands. It is based on the relationship of geomorphic setting, water source, and hydrodynamics. (Brinson, 1993)

Hydrophytic Vegetation

"Plant life growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content." (National Resource Council, 1995)

The U.S. Fish and Wildlife Service, in the *National List of Plant Species that Occur in Wetlands*, has established five basic groups of vegetation based on their frequency of occurrence in wetlands. These categories, referred to as the "wetland indicator status," are as follows: obligate wetland plants (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), and obligate upland (UPL).

Local Wetlands Inventory (LWI)

An inventory of all wetlands greater than 0.5 acres in size within a local jurisdiction using the standards and procedures of OAR 141-86-110 through 141-86-240.

In 1989, the Oregon state legislature authorized DSL to develop a statewide wetlands inventory for planning and regulatory purposes. Accordingly, DSL established Local Wetlands Inventory (LWI) standards and guidelines under ORS 196.674. An approved LWI replaces the National Wetlands Inventory maps and is incorporated into the statewide wetlands inventory.

An LWI is conducted using color or color infrared aerial photographs taken within 5 years of the inventory initiation and at a minimum scale of 1 inch = 400 feet (1" = 400'). Wetlands are located using the on-site option where access to property is allowed, or off-site where access is denied. Wetlands can be mapped off-site by using information such as topographic and National Wetlands Inventory maps, aerial photographs, and soils surveys.

The approximate location of wetlands is placed on a parcel-based map. The parcel-based map allows the property owner, the local jurisdiction, and DSL, to know which tax lots may contain wetlands.

The maps and documents produced for the LWI are intended for planning purposes only. Mapped wetland boundaries are accurate to within 25 feet; however, there may be unmapped wetlands that are subject to regulation. In all cases, actual field conditions determine wetland boundaries.

Palustrine System (P--)

"All nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens and all such wetlands that occur in tidal areas where salinity is less than 0.5%. This includes areas traditionally called swamps, marshes, fens, as well as shallow, permanent or intermittent water bodies called ponds." (Cowardin et. al. 1979)

- **Unconsolidated bottom (PUB)**

A wetland and deepwater habitats with at least 25% cover of particles smaller than stones and a vegetative cover less than 30%.

- **Emergent Wetland (PEM)**

These wetlands have rooted herbaceous vegetation which stand erect above the water or ground surface.

- **Scrub-shrub Wetland (PSS)**

Wetlands dominated by shrubs and tree saplings that are less than 20 feet high.

- **Forested Wetland (PFO)**

Wetlands dominated by trees that are greater than 20 feet high.

Riparian Area

"The area immediately adjacent to a water resource, which affects or is affected by the water resource. Riparian areas do not include the water resource itself." (PHS, 1998)

Riparian Assessment

"Determining the relative quality of a riparian area by assessing its functions." (PHS, 1998)

An evaluation of the ability of the riparian area to provide water quality, flood management, thermal regulation, and wildlife habitat functions. The methodology generally used to determine the relative quality of riparian areas for purposes of an inventory is *The Urban Riparian Inventory and Assessment Guide*.

Riparian Function

A characteristic action or role provided by riparian areas, such as water quality; flood management; thermal regulation; and wildlife habitat. (PHS, 1998)

Riparian Inventory

An inventory of location and extent of riparian areas within the boundaries of the Local Wetlands Inventory using *"The Urban Riparian Inventory and Assessment Guide."*

Riverine System

"The riverine system includes all wetlands and deepwater habitats contained within a channel." (Cowardin, et. al. 1979)

Waters of the State

Natural waterways including all tidal and nontidal bays, intermittent streams, constantly flowing streams, lakes, wetlands and other bodies of water in this state, navigable and nonnavigable. Natural waterways are defined as: waterways created naturally by geological and hydrological processes, and waterways that would be natural but for human-caused disturbances (e.g. channelized or culverted streams, impounded waters, partially drained wetlands or ponds created in wetlands). (ORS 196.800-196.990, 1995)

Water Resource

"An intermittent or perennial stream, pond, river, lake and including their adjacent wetlands." (PHS, 1998)

Wetland

"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." (Federal Register 1982).

Wetland Assessment

Determining the relative quality of a wetland by assessing its functions and conditions. The methodology generally used to determine the relative quality of wetlands for purposes of an LWI is the Oregon Freshwater Wetland Assessment Methodology. (Roth, et. al. 1996)

Wetland Condition

"The integrity of a wetland's physical and biological structure. This determines the ability of the wetland to perform specific functions, as well as its resilience and enhancement opportunities." (Roth et al., 1996)

Wetland Function

"A characteristic action or behavior associated with a wetland that contributes to a larger ecological condition such as wildlife habitat, water quality and/or flood control." (Roth, et. al. 1996)

Wetland Hydrology

"Permanent or periodic inundation or prolonged soil saturation sufficient to create anaerobic conditions in the upper soil profile." (COE, 1987)

Wetland hydrology is related to duration of saturation, frequency of saturation, and critical depth of saturation. The 1987 manual defines wetland hydrology as inundation or saturation within a major portion of the root zone (usually above 12 inches), typically for at least 12.5% of the growing season. The wetland hydrology criterion can be met, however, if saturation within the major portion of the root zone is present for only 5% of the growing season, depending on other evidence.

Wetlands Regulation

Wetlands in Oregon are regulated by the Division of State Lands (DSL) under the Removal-Fill Law (ORS 196.800-196.990) and by the U.S. Army Corps of Engineers (Corps) through Section 404 of the Clean Water Act.

3.0 PROJECT METHODOLOGY

3.1 Public Involvement

Prior to beginning the inventory, the City of Gold Beach mailed notices to selected landowners who may have wetlands on their property. Landowners who had areas of mapped hydric soils, soils with hydric inclusions, National Wetlands Inventory mapped wetlands, or suspected wetland areas received a notice of permission for site access.

Individual landowners were contacted directly by either the City or PHS. Access information was then transferred to the base map for use in the field.

Two public meetings were held during the course of the inventory. The first meeting was held on April 23, 2001, to introduce the project to the residents of Gold Beach. This meeting was held prior to the date required for return of the access request letters to answer any questions affected landowners may have for representatives of the City, PHS, or DSL.

The second public meeting was held on June 18, 2001, to present the draft results of the wetland inventory to the City Planning Commission and residents of Gold Beach.

3.2 Local Wetlands Inventory Methodology

3.2.1 Routine Off-site Determination

Prior to beginning field work, off-site mapping was conducted to determine the approximate location of wetland boundaries based on available information. This information included the USGS topographic quadrangles, the draft soil survey maps for Curry County Area (NRCS, 2001), the *National Wetlands Inventory* maps, and true color aerial photographs (BLM, May 17, 1997; 1"=400'). If access was allowed, the wetland boundaries were verified in the field (see Section 3.2.2). If access was not granted, the boundaries were based on the mapping conducted in the office, and on observation of wetland boundaries from adjacent roads, or properties, if possible.

3.2.2 Routine On-site Determination

Where property access permission had been granted, on-site observation and inspection of soils, vegetation, and hydrology were made using the Routine On-site Method of the 1987 manual. Soil pits were excavated up to a depth of approximately 18-inches in selected locations. The soil profiles were examined for hydric soils and wetland hydrology field indicators. A visual percent-cover estimate of the dominant species of the plant community for a maximum 30-foot radius was conducted at each sampling location. Sampling locations were chosen to document a change in the wetland boundary and a particular plant community. Data was recorded in the field and transferred to computer-generated wetland delineation data sheets (Appendix B).

Field work for the inventory was conducted between April and June 2001. No wetland boundaries were staked or flagged in the field.

3.3 Wetland Quality Assessment

3.3.1 The Oregon Freshwater Wetland Assessment Methodology

The quality of wetlands in the study area was assessed using the *Oregon Freshwater Wetland Assessment Methodology* (OFWAM) (Roth et al. 1996). OFWAM was developed by an interagency committee to assess the relative quality of wetlands primarily for planning and educational purposes. Copies of the methodology are available from DSL for a fee. OFWAM does not assign a numeric ranking to the wetlands, but does determine the relative quality of six functions and three conditions for each of the wetlands. A description of each of the functions and conditions is included below.

Wetland Functions

Wildlife habitat: Evaluates the habitat diversity for species usually associated with wetlands, without emphasizing one particular species. Wetlands assessed by OFWAM can provide diverse habitat for wildlife, habitat for some wildlife species, or does not provide habitat.

Fish habitat: Evaluates how a wetland contributes to fish habitat in streams, ponds or lakes associated with a wetland. The questions are suitable for both warmwater and coldwater fish and no particular species is emphasized. Wetlands assessed by OFWAM can have fish habitat function intact, impacted or degraded, or lost or not present.

Water Quality: Evaluates the potential of a wetland to reduce the impacts of excess nutrients in storm water runoff on downstream waters. A wetland's water quality function can be assessed by OFWAM as intact, impacted or degraded, or lost or not present.

Hydrologic control: Evaluates the effectiveness of a wetland to reduce downstream flood peaks and store floodwaters. A wetland's hydrologic control functions can be assessed by OFWAM as intact, impacted or degraded, or lost or not present.

Education: Evaluates the suitability of a wetland to provide educational opportunity and act as an "outdoor classroom." A wetland assessed by OFWAM can have educational uses, have the potential to provide, or not be appropriate for educational uses.

Recreation: Evaluates the suitability of a wetland and associated watercourses for non-powered boating, fishing, and similar recreational activities. A wetland assessed by OFWAM can provide, have the potential to provide, or not provide recreational opportunities.

Wetland Conditions

Sensitivity to Future Impacts: Evaluates the wetland's ability to sustain itself and its ability to recover from future impacts. It is an indication of risk to the wetland because of future changes in the watershed and surrounding land. A wetland can be assessed by OFWAM as sensitive to future impacts, potentially sensitive to future impacts, or not sensitive to future impacts. An undisturbed forested wetland is more sensitive to future impact than a wetland which has already been disturbed, such as agricultural wetland.

Enhancement Potential: Evaluates the suitability of a degraded wetland for enhancement. A wetland providing this condition does not provide one or more of the functions assessed by OFWAM. A wetland fulfilling this condition, therefore, would be of lower overall quality than a wetland providing wildlife habitat, fish habitat, etc. Wetlands which provide diverse wildlife habitat were not assessed in this section, as per the revised OFWAM. Wetlands are assessed as either high enhancement potential, moderate enhancement potential, or little enhancement potential.

Aesthetic quality: Evaluates the visual and aesthetic quality of the wetland. Wetlands can be considered pleasing, moderately pleasing, or not pleasing.

3.3.2 Wetlands of Special Interest for Protection

The first filter in OFWAM is to determine whether the wetland is in a management plan, is protected by regulatory rules or statutes, or is uncommon in Oregon. Ten questions are answered for each wetland and a “yes” answer to any of the questions puts the wetland into the “special interest for protection” category. If the wetland falls into this category, it is noted on the wetland characterization sheet.

3.3.3 Field Methodology

During the process of determining the boundaries for the LWI, data were also collected for the process of determining its relative quality. Data collected for this purpose are explained in the *Wetland Characterization* section of OFWAM. Data collected in the field included the Cowardin classes, the types of disturbance (if any) in the wetland area, the hydrology of the wetland area (e.g. the location of constrictions), the presence of fish, large woody debris, the degree of vegetative cover, and other information necessary to complete the assessment of the wetland in the office.

If the wetland determination was off-site, the OFWAM section and wetland characterization was based on review of the aerial photographs and knowledge of other similar or adjacent wetlands.

3.3.4 Office Assessment

Subsequent to the field work, the data collected for each wetland were used to answer questions for each function and condition. Additional information on the wetlands, the landscape and the general area were gathered in the office. The answers within each function and condition section of the methodology were entered into a computer spreadsheet, which automatically displays the results of the assessment methodology.

Prior to starting the OFWAM assessment certain criteria or baseline information was established. The following is a list of the criteria used in answering the questions:

The Oregon Department of Environmental Quality has mapped the Rogue River as water quality limited due to pH and summer temperatures (ODEQ, 1996). This information was used in the following questions in OFWAM: Wildlife, question 7; Fish Habitat, question 4; Water Quality, question 6; and Sensitivity to Future Impacts, question 3.

Oregon Department of Fish and Wildlife (ODFW) has inventoried anadromous fish (e.g. coho, chinook, steelhead, cutthroat trout) in the Rogue River, Hunter Creek, Riley Creek, Saunders Creek, Indian Creek and "God Wants It" Creek (ODFW, pers. comm.). This information was used in Fish Habitat, question 6. The Rogue River, Hunter Creek, Saunders Creek and Indian Creek are mapped as Essential Indigenous Anadromous Salmonid Habitat by ODFW and DSL (DSL, OAR 141-102-030, 1996).

The enhancement potential section was not required if the wetland was assessed with "diverse wildlife habitat," as per OFWAM directive. In addition, question 3 was specifically directed towards wetlands whose primary source of hydrology was surface water. If this was not the case (i.e. primary source of hydrology is groundwater), question 3 was not answered.

3.4 Riparian Inventory

3.4.1 Urban Riparian Inventory and Assessment Guide

The Urban Riparian Inventory and Assessment Guide (Riparian Guide) was used for the Gold Beach riparian inventory. The Riparian Guide depends on a combination of best available knowledge, field observations, and best professional judgment. The methodology is comprised of the riparian inventory and the riparian assessment. The riparian inventory involves gathering and assimilating information pertinent to the project site, developing a base map, and completing the Riparian Characterization Form.

The guide was designed to work in conjunction with the LWI and relies on the same aerial photograph or base map. In addition, coding of the riparian areas is based on hydrologic basins, reflecting the coding system established for the LWI. The inventory portion of the Guide depends on the completion of a Riparian Characterization Form and Riparian Width Determination Form.

A completed Riparian Characterization Form provides information on the physical and biological characteristics of the riparian area, such as vegetation, slope, adjacent land uses, and degree of disturbance. Most of the form was completed on-site, provided access was allowed. However, some portions, such as the mapped soil series, were completed in the office. The questions are answered separately for the riparian areas on both sides of a stream.

The riparian width is measured from the edge of the water resource, typically either the top of a streambank or the outer edge of a wetland, lake, or pond. Riparian areas on both sides of a stream channel are assigned separate widths. Right and left widths are not combined and do not include the channel. The riparian potential width is based on the dominant riparian tree species within 100 feet of the water resource. The height of the dominant tree species at maturity will be used as a distance to define the outer riparian boundary. The height of this

tree species at maturity is called the potential tree height (PTH). PTH is used as the potential riparian width because it represents a distance in which a tree can still affect the water resource (e.g. shade, organic material).

Where riparian area trees have been eliminated by land-use activities or natural causes, such as development, land slides, or logging, it may be necessary to extrapolate tree heights from a reference site. The reference site should be similar in character and landscape position and should be located as close as possible to the riparian reach. If a reference site is used, it is noted on the Width Determination Form. If a reference site cannot be located, field observations and reference materials must be used to establish PTH.

Although the riparian width will never exceed the PTH, it may be less than the PTH if impervious surfaces or permanent structures (e.g. buildings or roads) are inventoried within the riparian area. Therefore, on the Riparian Width Determination form, the first width represents the PTH and the second width represents the actual width as determined in the field and during review of aerial photographs.

Completion of the Riparian Width Determination Form also requires drawing a typical cross section through the riparian area.

3.4.2 Riparian Assessment

Riparian areas provide numerous and complex functions that affect both aquatic and terrestrial systems. Many ecological functions of riparian areas are also provided by wetlands, floodplains, and vegetated upland areas.

The Riparian Function Assessment evaluates the ability of the riparian area to provide water quality, flood management, thermal regulation, and wildlife habitat functions. The results indicate whether the functions of each reach are intact, degraded, or severely impacted. The assessment is completed by answering a series of questions. Most of the questions are intended to be answered using data from the Riparian Characterization Form.

Because certain elements or characteristics of a riparian area are more critical to its function, the answers are "weighted." The points are then totaled for each side and for each function. Based on the score, the riparian function will be assessed as high, medium or low.

The results of the Riparian Function Assessment for all of the riparian areas within the inventory study area are then transferred to a Riparian Function Assessment Summary Table.

3.4.3 Riparian Functions

Water Quality

Riparian areas can enhance water quality in many ways. Undisturbed, densely vegetated riparian areas trap sediments, inhibit erosion and filter runoff originating from impervious surfaces, lawns, golf courses, etc.

Sedimentation and erosion, although natural processes, are accelerated in urban areas by increased impervious surfaces. Impervious surfaces also inhibit infiltration. Sediment within a riparian area can be from erosion of poorly vegetated uplands, runoff from impervious surfaces, or floods from an adjacent water resource. Sediments often carry nutrients (e.g. phosphates and nitrates) and pollutants (e.g. heavy metals, hydrocarbons) to water resources, altering water chemistry, burying spawning gravels and impacting fish and wildlife habitat. Excessive concentration of nutrients in the water can trigger algal blooms, depleting the water of oxygen required by fish and other aquatic organisms.

The ability of a riparian area to resist erosion is related to slope, soil type, type of vegetation, vegetation cover, landscape position, and degree of human disturbance.

Flood Management

Riparian areas and associated wetlands and floodplains provide a valuable flood management function by reducing the force and volume of floodwaters. Floodwaters flowing into a vegetated flood prone riparian area can be slowed or temporarily stored, reducing peak flows and flooding downstream. Woody vegetation, in particular, resists floodwaters and reduces its velocity. Topographic features, such as swales and depressions, can enhance a riparian area's ability to manage flood flows. Reducing the velocity of floodwaters in the riparian area allows infiltration of water into the soil. Water entering the soil is slowly released into the main channel, delaying its movement downstream.

Thermal Regulation

Water temperature affects the ability of a stream to support viable populations of certain aquatic organisms. Riparian shade, especially forest canopy, moderates temperature within and adjacent to a water resource. Although stream temperatures are important throughout the year, summer temperature is generally more critical for fish species such as salmonids. High water temperatures and sunlight are factors that can promote algal blooms, reducing dissolved oxygen required by anadromous fish and other cold-water dependent organisms.

The aspect or orientation of the water resource and the height of the adjacent riparian vegetation play important roles in how effective riparian vegetation is in providing shade.

Wildlife Habitat

Riparian areas provide valuable habitat for wildlife and influence fish habitat. The highest quality wildlife habitat in urban areas has a variety of plant species and layers, a perennial water source, and some degree of protection or buffering from disturbance.

Riparian areas are particularly important migration corridors between upland and aquatic systems for a wide variety of species. It has been reported that the majority of Oregon's major wildlife species, including amphibians and reptiles, use wetlands or riparian areas during some portion of their life cycle.

4.0 CARTOGRAPHY

Color aerial photographs were obtained for use in the field. These photos are 1997 true color, with a scale of approximately 1 inch = 400 feet. Clear acetate was overlaid and permanently registered on the photographs and preliminary wetland boundaries and data point locations were drawn directly on the acetate in the field. In addition, areas within the project area where permission to enter was denied were drawn on the acetate overlays. The wetland boundaries and approximate affected tax lot boundaries were then transferred into a digital format and inserted into a computer-based map derived from the Department of Geology and Mineral Industries. No digital tax base information was available from the City.

Additional layers added to the AutoCAD base map included watershed basin boundaries, streams from the USGS, additional geographic names, wetland codes, riparian codes, and sample point locations. A hydrologic basin refers to the drainage area for an individually named stream or creek.

Each wetland was assigned a code beginning with the two letter hydrologic basin designation and the number of wetlands within each watershed (e.g. RO- # for Rogue River, PA-# for Pacific Ocean, HC-# for Hunter Creek). Wetlands that were hydrologically connected but separated by roads or were similar in character and in close proximity, were labeled with a code modifier (e.g. RO-2A and 2B).

The riparian mapping was drawn on the 1" = 400' base maps and scanned into the base as a separate layer. The riparian areas were labeled with a riparian code (e.g. R-RO-5) and an assessment location symbol. Each reach was assigned a separate code. Riparian widths were transferred to the base map. They were measured horizontally from the outer edge of the stream or associated wetland. The final digital maps include a legend, north arrow, scale, and a disclaimer if not all wetland or riparian areas were assessed on-site or if mapping inaccuracies occur. The map projection is the Universal Transverse Mercator (UTM), Oregon State Plane NAD 83 South.

5.0 STAFF QUALIFICATIONS

John van Staveren:	President/Natural Resources Division; Senior Scientist; Professional Wetland Scientist
Project Role:	Project Manager
Project Responsibility:	Contract negotiations, monthly billing Wetland and riparian inventory field work and assessment Public presentations Quality control Regulatory agency coordination

John van Staveren has managed over 600 wetlands-related projects, including 12 large-scale wetland inventories; conducted over 750 wetland delineations; testified at numerous public hearings; and provided expert witness testimony. He served as technical advisor to two Citizen Advisory Committees responsible for establishing criteria for the determination of significant wetlands for purposes of Goal 5 and the determination of significant natural resources for purposes of Goal 17.

John van Staveren served on two Oregon Division of State Land's Technical Advisory Committees (TACs) responsible for developing statewide policy on wetlands. These TACs are to establish statewide criteria for determining locally significant wetlands for Goal 5 and to establish a payment option for wetland mitigation. He was a Wetlands Expert team member providing analysis of the OFWAM, and was a reviewer for the latest revision to the methodology. He has conducted a riparian inventory of Dunes City, Florence, and Reedsport. He has managed dozens of Section 404 and Removal-Fill permit projects for wetland fills; designed dozens of freshwater and estuarine wetland mitigation projects; and drafted two local land use ordinances regulating development activities within natural resource areas.

Patricia Farrell: Wetland Scientist; Landscape Architect

Project Role: Assistant Project Manager
Project Responsibility: Wetland and riparian inventory field work and assessment
Significant wetland determination
Computer graphics quality control and editing
Report writing

Patricia Farrell has a bachelor's degree in biology and a master's in landscape architecture. Patricia has played a major role in eleven Local Wetlands Inventories, conducted Goal 5 and Goal 17 natural resource surveys, conducted riparian inventories, and applied the *Oregon Freshwater Assessment Methodology* to hundreds of wetlands. She has managed numerous wetlands-related projects including large scale wetland delineations, site assessment, wetland mitigation planning and monitoring, and AutoCAD drafting and graphics. She has also assisted in the development of local ordinances related to protection of significant Goal 5 natural resources and in the development of the *Urban Riparian Inventory and Assessment Guide*.

Tom Rodgers: AutoCAD and Arc-Info Specialist

Project Role: Cartographer
Project Responsibility: Mapping
Graphics

Tom Rodgers is a computer graphics specialist, with experience in the production of Local Wetlands Inventories. He is proficient with AutoCAD Map, Arc-View and Arc-Info programs. He has prepared the maps for several LWIs and coordinated with Planning Departments and Council of Governments to ensure that map products and digital information is compatible with local operating systems.

6.0 STUDY AREA CHARACTERISTICS

6.1 Setting

6.1.1 Culture and Industry

The present pattern of land use in Gold Beach has been determined by the location of transportation routes, topography, and land ownership. Prior to white settlement the area was inhabited by a tribe of coastal native Americans who spoke a common Athapascan language. Historically a village was located at the mouth of the Rogue River. Gold was discovered in the black sand beaches north and south of Gold Beach in 1853, followed by the escalation of white settlement in the area and the relocation of the natives. In 1857 ferry service was established across the river and the city was re-named Ellensburg until 1890, when it was changed back to Gold Beach. A hatchery and cannery were started in 1877 by R. D. Hume. These businesses employed the majority of people in Gold Beach until the fire of 1893 destroyed the cannery. Other industries more recently have included a Champion mill located at the east end of the UGB. This mill burned and has since been dismantled, with only the log ponds and building pads remaining.

Earliest development within Gold Beach was along the river frontage to take advantage of barge and boat transportation. In general, early development was confined to the relatively level area to the south of the Rogue River. However, with the rise in population, residential, commercial, and small industrial development has spread north to Wedderburn and east along the narrow flats adjacent to the Rogue River. Highway 101 runs north/south through the city and provides the main access route to the community. Two aggregate areas are located along the Rogue River and partially within the UGB.

6.2 Topography

The project area is comprised of a narrow level terrace along the north and south sides of the Rogue River and steep slopes to the south, north and east. Several perennial creeks and numerous intermittent drainages are within the study area, including the Rogue River, Indian Creek, Saunders Creek, Dean Creek, Riley Creek, Cunniff Creek, "God Wants It" Creek, and Hunter Creek. The nearly level area located between the ocean and just east of Highway 101 is a combination of residential, light industrial, marine and commercial properties. Within this area, the Port of Gold Beach operates a marina, dredge spoils sites and a small airport.

Elevations range from 0 feet National Geodetic Vertical Datum (NGVD) to approximately 725 feet NGVD at points along the eastern UGB.

6.3 Hydrology

6.3.1 Hydrologic Features of the Gold Beach Study Area

The major hydrologic features of the project area are the Rogue River, Indian Creek, Saunders Creek, Dean Creek, Riley Creek, Cunniff Creek, "God Wants It" Creek, and Hunter Creek. Minor hydrologic features include several intermittent drainages originating in the steep hillsides.

The Rogue River has the largest watershed (5,160 square miles) in southwestern Oregon, and is second only to the Columbia River in watershed size. Approximately half of the watershed is located upstream of Grants Pass, and the other half is associated with the Klamath Mountain and the Illinois River, the Rogue's largest tributary. The Rogue estuary is relatively short, with the head of tide extending approximately 4.5 miles upstream. The estuary is a drowned-river valley and lacks the bay and slough subsystems typical of other Oregon estuaries (Comprehensive Plan, 1982). The Rogue River provides habitat for several anadromous salmonids and is considered essential habitat for that reason.

The other main drainage is Hunter Creek, located at the southern end of the UGB, between the Rogue River and the Pistol River. It is a shallow drainage with water depths rarely exceeding 5 feet. The head of tide extends approximately 1.25 miles upstream. The mouth of the creek is fixed by the Highway 101 bridge. It is fronted by several commercial and industrial developments along its southern/western boundary and has mostly rural residential development on its northern/eastern boundary. It is a salmon-bearing stream and considered essential habitat for anadromous fish.

Tributaries within the Rogue River watershed include Saunders, Indian, Dean Creek and "God Wants It" Creek. These are all perennial drainages that have their headwaters outside the UGB. Other un-named creeks also contribute to the Rogue River, including a drainage from the old mill site, and another located north of Saunders Creek Road. Dean Creek has been extensively altered through the downtown portion of Gold Beach and is piped for approximately 1,100 feet under the Port property, daylighting at the marina. The other Rogue tributaries are less modified, with fewer culverts.

Riley and Cunniff Creeks drain from the eastern hillsides west to the Pacific Ocean. They are piped in many locations through residential and commercial areas. A small un-named drainage also flows into the Pacific Ocean in the Wedderburn area, through the Knox subdivision. Minor drainages, spring and seeps are also present in the study area; however, due to the steep topography and permeable soils, they are generally intermittent.

In addition, low lying areas along the coastline and adjacent to the major creeks are mapped within the 100-year floodplain by the Federal Emergency Management Agency (FEMA).

6.3.2 Hydrologic Basin Designation

The study area was divided into five primary hydrologic basins: Rogue River (RO), Pacific Ocean (PA), Riley Creek (RI), Cunniff Creek (CU), and Hunter Creek (HC). The Rogue basin includes Saunders, Indian, and Dean Creeks. Determination of the basins was based on topographic information, and observations of drainage patterns in the field. The watersheds and their sizes are listed in Table 1.

Table 1: Hydrologic Basins and Acreage for the City of Gold Beach Local Wetlands and Riparian Inventories

Hydrologic Basin	Basin Area (acres)
Pacific Ocean	223.59
Rogue River	972.71
Riley Creek	332.67
Cunniff Creek	147.57
Hunter Creek	789.33
Total Project Acreage	2,465.87

6.3.3 Hydrologic Indicators

Direct indicators of hydrology observed during the inventory included soils saturated at or near the surface, inundation, and a shallow water table. Indirect indicators included oxidized rhizospheres with living roots, algal mats, drift lines, and wetland drainage patterns.

6.4 Soils

Table 2 lists the soils that have been mapped by the Natural Resources Conservation Service (NRCS; formerly the Soil Conservation Service) within the Gold Beach study area. There is no published soil survey for Curry County, so a soils map is not available at this time.

Table 2. Soils Mapped Within the Gold Beach LWI Study Area

Map unit	Soil Series	Slope	Drainage Class	Hydric?
3	Beaches			
19F	Grassyknob silt loam	30-60%	well drained	
37	Riverwash			Yes
49E	Frankport sand, thin surface	0-30%	excessively drained	
53	Urban land			
66E	Sebastian-Rustybutte-Rock outcrop complex	0-30%	well drained	
66F	Rustybutte-Sebastian-Rock outcrop complex	30-60%	well drained	
73F	Rustybutte-Sebastian complex	30-60	well drained	
74E	Svensen-Reedsport complex	15-30%	well drained	
75F	Whaleshead-Reedsport-Millicoma complex	30-60%	well drained	
76F	Millicoma-Whaleshead-Reedsport complex	30-60%	well drained	
85D	Cunniff silty clay loam	0-15%	well drained	

Table 2, continued

Map unit	Soil Series	Slope	Drainage Class	Hydric?
203A	Yaquina loamy fine sand	0-3%	somewhat poorly drained	Yes
204A	Heceta fine sand	0-3%	poorly drained	Yes
205D	Ferrelo-Gearhart complex	0-15%	well drained/	
206D	Bullards-Ferrelo-Hebo complex	0-20%	well drained	
210A	Nehalem silt loam	0-3%	well drained	
212A	Nestucca silt loam	0-3%	somewhat poorly drained	Yes
213A	Gauldy-Willanch complex	0-3%	somewhat excessively drained	
215B	Hebo silty clay loam	0-7%	poorly drained	Yes
220C	Ekoms loam	0-12%	well drained	
245A	Brenner silt loam	0-3%	poorly drained	
247A	Yachats very fine sandy loam	0-3%	well drained	Yes
248A	Logsdan-Euchre complex	0-3%	well drained	

A variety of soil types were sampled during field visits to the study area; surface features are described on data sheets in Appendix B. Hydric soil indicators observed during the survey included low chroma soils, both with and without redoximorphic features.

6.5 Vegetation

6.5.1 Overview

The City of Gold Beach is located within the Sitka Spruce (*Picea sitchensis*) Forest Zone (as characterized by Franklin and Dyrness, 1973). This vegetation zone occupies a low-elevation strip along the immediate coastline, often only a few miles wide, and is subject to a relatively wet and mild climate. The zone is distinguished largely by the presence of Sitka spruce, frequent summer fogs, and proximity to the ocean. This portion of the Oregon Coast is drier however, than other coastal areas to the north. Areas to the east of the first ridge or sheltered from prevailing winds and fog begin to assume plant compositions more similar to the interior valleys.

Common trees found in this region include Sitka spruce, western hemlock, western red cedar (*Thuja plicata*), Douglas fir (*Pseudotsuga menziesii*), and red alder (*Alnus rubra*). Other trees observed in the drier or more protected areas include myrtle (*Umbellularia californica*), madrone (*Arbutus menziesii*) and tanoak (*Lithocarpus densiflorus*). Further discussion of coastal plant communities within the Sitka Spruce Zone can be found in *Natural Vegetation of Oregon and Washington* (Franklin and Dyrness 1973).

6.5.2 Local Vegetation Communities

Generalized plant communities encountered within the City of Gold Beach study area include upland broadleaf-scrub/shrub thicket, upland coniferous forest, upland mixed coniferous/deciduous forest, developed-urban, wetland, and riparian. Wetland communities are further distinguished as freshwater (palustrine emergent, palustrine scrub-shrub, and palustrine forested; and riverine systems), and brackish (estuarine emergent, estuarine scrub-shrub, and estuarine forested) following the Cowardin classification system developed for the US Fish and Wildlife Service (Cowardin, et. al., 1979). Each of the above communities is described in the sections below. A list of plant species known or expected to be in the area is included in Appendix F.

Upland Broadleaf Scrub/Shrub Thicket

Shrub communities are typically associated with relatively recent or periodically occurring disturbances (i.e. following logging, grading, and fire; or subject to flooding). Dominant species may include saplings of regenerating conifers such as Sitka spruce or Douglas fir, deciduous trees such as red alder, and shrubs such as salmonberry, thimbleberry (*Rubus parviflorus*), salal, vine maple (*Acer circinatum*), evergreen huckleberry, rhododendron (*Rhododendron macrophyllum*), and blackberries (*Rubus* spp.). Introduced Scots' broom (*Cytisus scoparius*) is also a rapid colonizer in disturbed areas. Herbaceous species are common in cleared openings, often being the first plants to colonize disturbed ground.

Upland Coniferous Forest

The dominant species in the coniferous overstory are Douglas fir, Sitka spruce, western hemlock, and western red cedar. Sitka spruce is more common closer to the ocean, with the other species becoming more dominant further inland or in managed forests. Understory plants vary greatly with the density of the tree canopy. A closed canopy forest tends to suppress understory species diversity and density, though species such as false lily-of-the-valley (*Maianthemum dilatatum*) and sword fern (*Polystichum munitum*) are commonly encountered. Openings in the canopy allow greater shrub development, with salmonberry, salal, rhododendron, and evergreen huckleberry often evident.

Upland Mixed Coniferous-Deciduous Forest

The conifer species mentioned above may be codominant with deciduous hardwoods such as red alder, bigleaf maple, and willows. Shrub understories are often well-developed due to a more open tree overstory for much of the year. Common shrubs include salmonberry, red elderberry (*Sambucus racemosa*), myrtle, tanoak, vine maple, evergreen huckleberry, salal, and cascara (*Rhamnus purshiana*).

Developed-Urban

Plant communities in large portions of the City of Gold Beach study area have been influenced by human activities for most of this century. The study area includes developed commercial areas and single-family residential subdivisions, as well as widely dispersed rural residential. There are very few undisturbed natural areas within the UGB. Residences, businesses, parking areas, roads, and sidewalks all represent unvegetated or landscaped areas. Vegetation is often of horticultural origin or weedy in these areas. The fringes of these developed areas may have been subject to disturbance as well, often allowed to regenerate as red alder, Scot's broom or blackberry thickets. More frequent disturbance may maintain areas as open spaces dominated by weedy grasses and forbs.

Wetlands

Wetland areas are generally transitional between upland or riparian areas and truly aquatic sites with permanently open water. Open water may or may not be present, in which case the wetland can occupy a position where the groundwater table comes close to the surface for an extended period at some time during the growing season. Brackish, or estuarine wetlands are present along the tidally influenced areas of the Rogue River and Hunter Creek.

Palustrine forested wetlands (PFO) in the area are dominated primarily by an overstory of Sitka spruce, western hemlock, western red cedar, and red alder. Palustrine scrub/shrub (PSS) wetlands typically include sapling red alder, willows (*Salix* spp.), and twinberry (*Lonicera involucrata*). Palustrine emergent wetlands (PEM) are dominated by herbaceous species such as sedges (*Carex* spp.) water parsley (*Oenanthe sarmentosa*), rushes (*Juncus* spp.), birds foot trefoil (*Lotus corniculatus*) and creeping buttercup (*Ranunculus repens*).

Estuarine wetlands along the Rogue River and Hunter Creek are primarily composed of emergent species and willows. These estuarine emergent wetlands at lower elevations are influenced by the combination of high salinity and daily tidal inundation. These factors produce a pronounced zonation by species. Common emergents in these brackish areas include Lyngby's sedge (*Carex lyngbyei*), western lilaopsis (*Lilaeopsis occidentalis*), spikerush (*Eleocharis palustris*, *E. ovata*), and Pacific silverweed (*Potentilla anserina*).

Riparian

Riparian forests are often similar to the upland mixed evergreen-deciduous forests, though species preferring wetter sites may be more common. Alder and willow dominate in the wetter areas, with Sitka spruce and bigleaf maple more common in the drier riparian zones.

6.5.3 Wetland and Upland Indicator Species

Species lists of commonly encountered plants, along with their status as indicators of wetland conditions, have been prepared for all regions of the country by the USFWS (1988). The status of a particular plant, as discussed in Section 2.0, is the probability of that plant occurring in a wetland. Table 3 summarizes the wetland indicator codes.

Table 3. Wetland Indicator Codes and Status

Indicator Code	Status
OBL	Obligate wetland. Estimated to occur almost exclusively in wetlands (>99%)
FACW	Facultative wetland. Estimated to occur 67-99% of the time in wetlands.
FAC	Facultative. Occur equally in wetlands and non-wetlands (34-66%).
FACU	Facultative upland. Usually occur in non-wetlands (67-99%).
UPL	Obligate upland. Estimated to occur almost exclusively in non-wetlands (>99%). If a species is not assigned to one of the four groups described above it is assumed to be obligate upland.
NI	Has not yet received a wetland indicator status, but is probably not obligate upland.

Many plants are found in transitional areas between wetlands and uplands. These areas are usually characterized by flat to gradually sloping terrain where the species composition may not reflect true wetland boundaries. In such areas, a species with a status of FACU may extend into the wetland areas, just as FACW species may also be present in upland areas.

A non-comprehensive listing of plant species encountered or expected within the project area, and their wetland indicator status, is included in Appendix F.

7.0 LWI DISCUSSION AND CONCLUSIONS

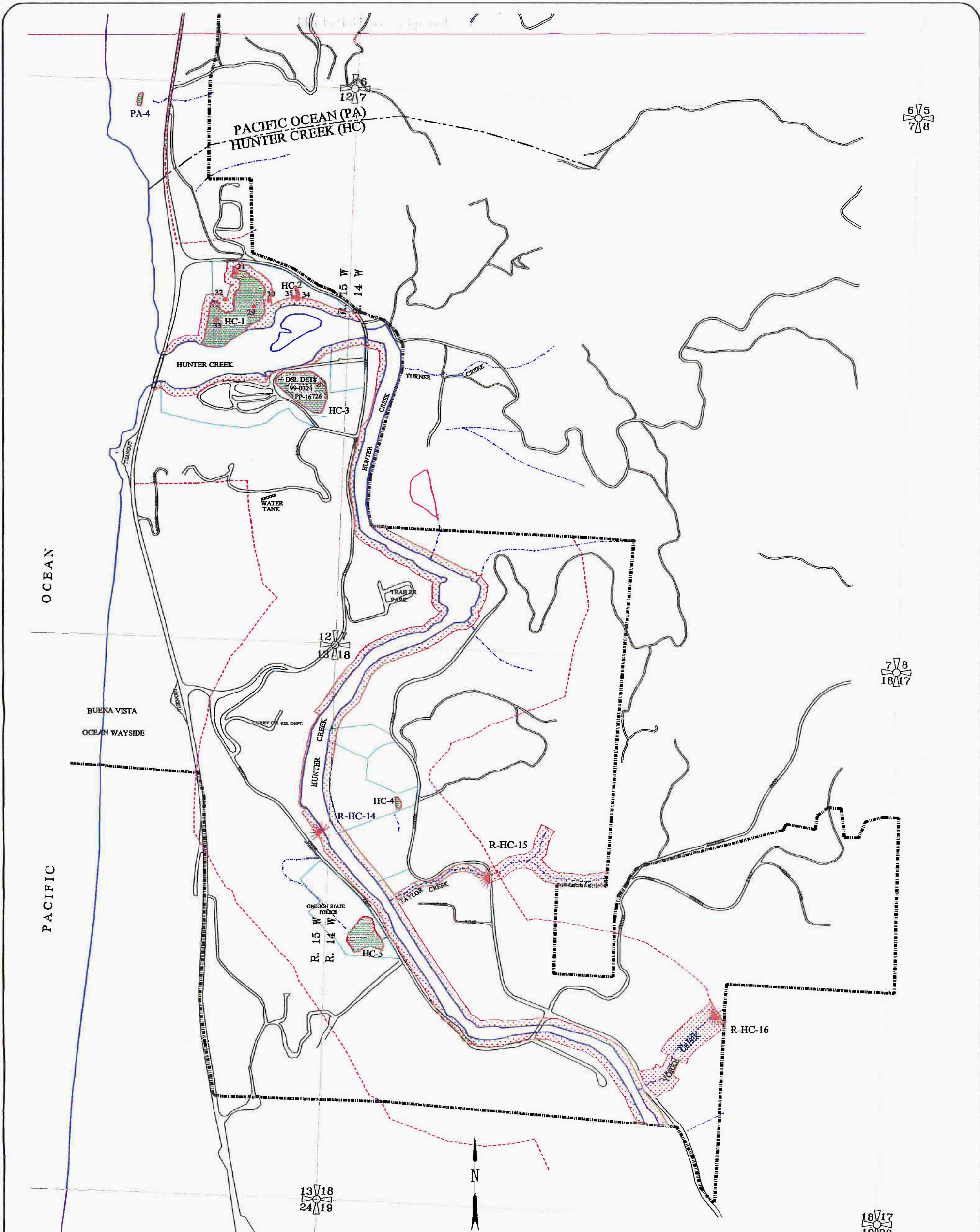
7.1 U.S. Fish & Wildlife Service National Wetland Inventory Areas

The U.S. Fish and Wildlife Service, as part of the National Wetlands Inventory (NWI) program, has mapped wetland in the study area (Figure 2). The NWI maps are generated primarily on the basis of interpretation of relatively small-scale color infrared aerial photographs (e.g., scale of 1:58,000) with limited "ground truthing" conducted to confirm the interpretations.

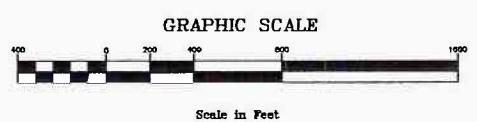
7.2 Local Wetlands Inventory Results

7.2.1 Wetland Acreage and Distribution

A total of 32 wetland units were identified during the LWI with a total acreage of approximately 56.04 (Figures 3A-3E). Although there are five hydrologic basins, the Cunniff and Riley basins did not have any wetlands, just jurisdictional waters associated with the creeks. The Rogue basin contains more than four times the wetland acreage of the other basins. Table 4 summarizes the wetland acreage and distribution in the study area.



LEGEND	
Watershed Boundary	--- Affected Taxlot
Coastal Shorelands Planning Area (Goal 17)	- - - Potentially Jurisdictional Wetland
Drainage	- - - Major Marsh (Goal 17)
Urban Growth Boundary	- - - Locally Significant Wetland (Goal 5)
Riparian Observation Point	☀ Riparian Area
Riparian Code	R-H-2 Wetland Code
Upland	□ RO-1
	● Sample Point



Funding for this project was provided by a grant from the Oregon Department of Land Conservation and Development

THIS MAP IS FOR PLANNING PURPOSES ONLY
WETLAND BOUNDARIES ARE APPROXIMATE
AND SUBJECT TO CHANGE

This map has NOT been approved by the wetland regulatory agencies for permitting purposes. You are advised to contact the Oregon Division of State Lands and the U.S. Army Corps of Engineers with any regulatory questions. There may be additional wetlands within the study area that have not been identified. All wetlands, whether mapped or not, are subject to Federal and State permit requirements. There may also be areas of non-wetland within areas identified as wetlands on this map. In all cases, Federal and State agencies will use actual field conditions, rather than this map, to determine wetland boundaries.

DATE: June, 2001
 BASE MAP INFO: Supplied by City of Gold Beach,
 DQGAMI, BLM 1997 Aerial Photographs
 JOB NO.: 2316

Gold Beach

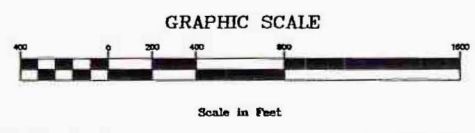
Local Wetlands and Riparian Inventory

Pacific Habitat Services, Inc.
 9450 SW Commerce Circle, Suite 100
 Wilsonville, Oregon 97070
 Phone: (503) 570-0800

FIGURE
3E



LEGEND	
Watershed Boundary	--- Affected Taxlot
Coastal Shorelands Planning Area (Goal 17)	- - - Potentially Jurisdictional Wetland
Drainage	- - - Major Marsh (Goal 17)
Urban Growth Boundary	- - - Locally Significant Wetland (Goal 5)
Riparian Observation Point	☀ Riparian Area
Riparian Code	R-H-2 Wetland Code
Upland	☐ RO-1
	● Sample Point



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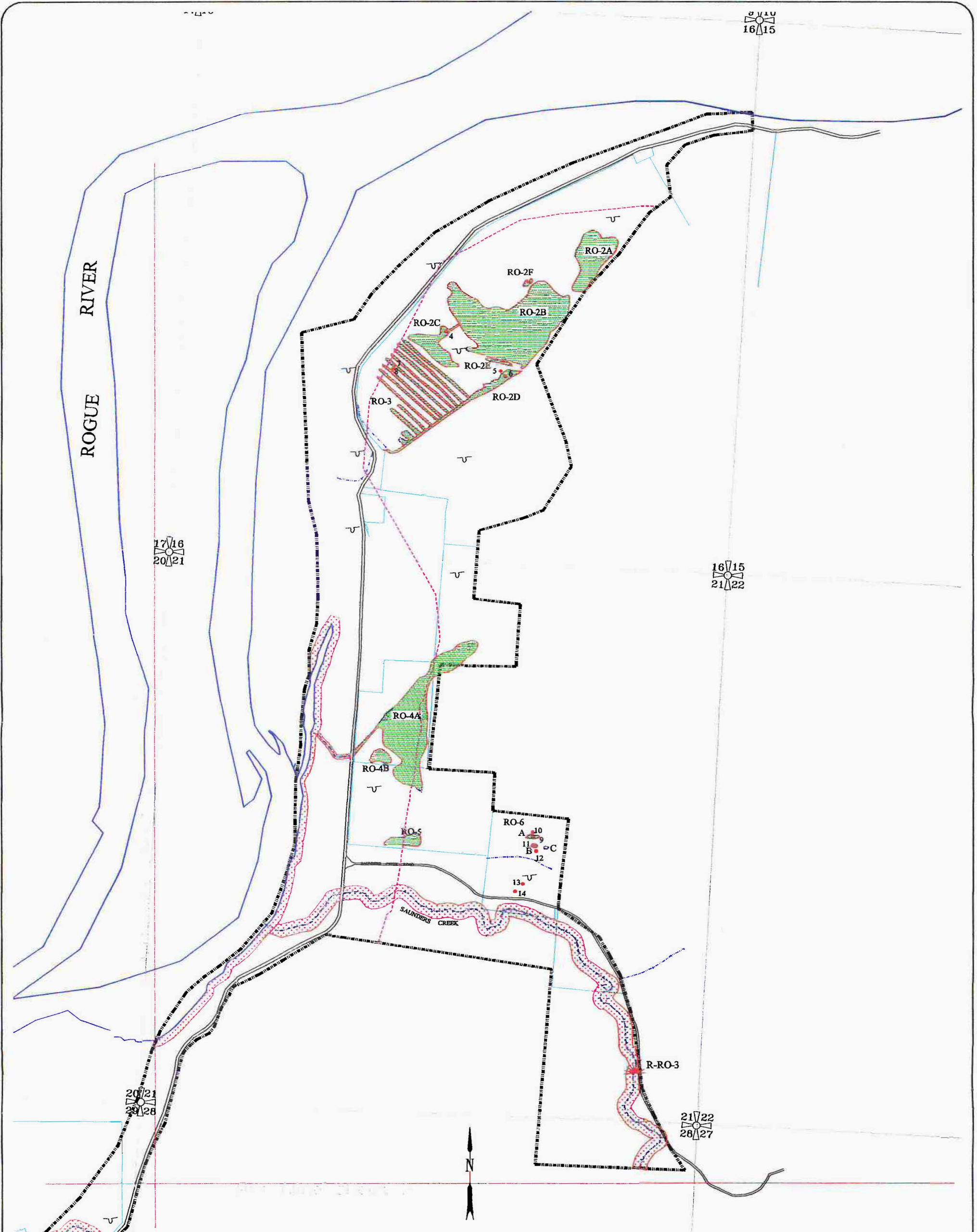
DATE: June, 2001
 BASE MAP INFO: Supplied by City of Gold Beach.
 DOGAMI, BLM 1997 Aerial Photographs
 JOB NO.: 2316

Gold Beach

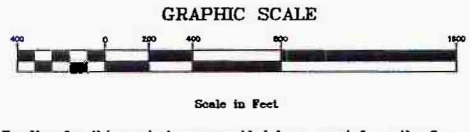
Local Wetlands and Riparian Inventory

Pacific Habitat Services, Inc.
 9450 SW Commerce Circle, Suite 180
 Wilsonville, Oregon 97070
 Phone: (503) 570-0800

FIGURE
 3D



LEGEND		
Watershed Boundary	--- ---	Affected Taxlot
Coastal Shorelands Planning Area (Goal 17)	- - - - -	Potentially Jurisdictional Wetland
Drainage	— · — · —	Major Marsh (Goal 17)
Urban Growth Boundary	=====	Locally Significant Wetland (Goal 5)
Riparian Observation Point	☀	Riparian Area
Riparian Code	R-H-2	Wetland Code
Upland	∩	Wetland Code
		RO-1
		Sample Point
		20



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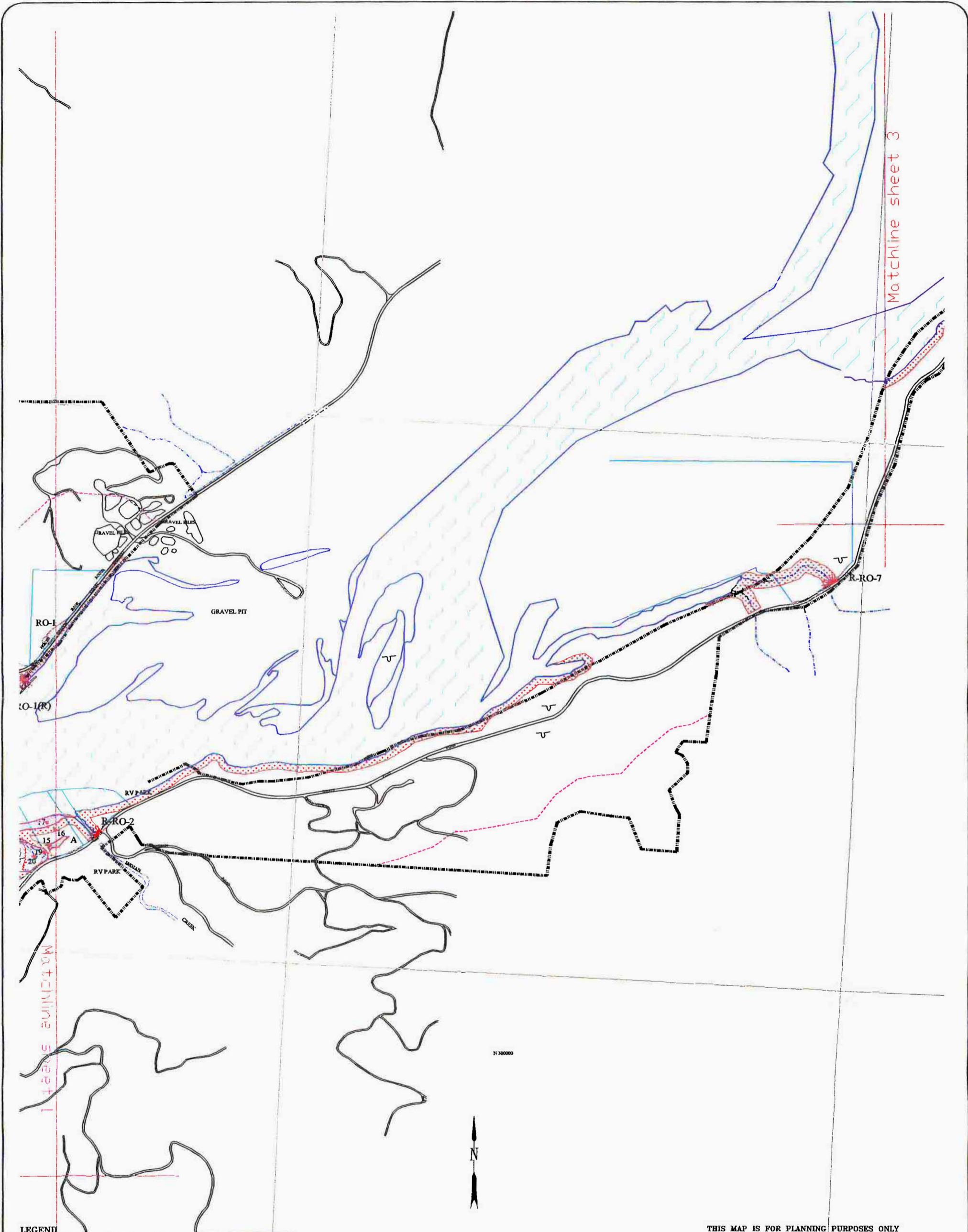
Gold Beach

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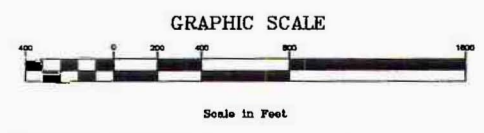


FIGURE
3C



LEGEND

Watershed Boundary	--- --	Affected Taxlot	[Blue hatched box]
Coastal Shorelands Planning Area (Goal 17)	- - - - -	Potentially Jurisdictional Wetland	[Green hatched box]
Drainage	--- --	Major Marsh (Goal 17)	[Red hatched box]
Urban Growth Boundary	--- --	Locally Significant Wetland (Goal 5)	[Yellow hatched box]
Riparian Observation Point	⊙	Riparian Area	[Pink hatched box]
Riparian Code	R-H-2	Wetland Code	RO-1
Upland	∩	Sample Point	● 20



Funding for this project was provided by a grant from the Oregon Department of Land Conservation and Development

**THIS MAP IS FOR PLANNING PURPOSES ONLY
WETLAND BOUNDARIES ARE APPROXIMATE
AND SUBJECT TO CHANGE**

This map has NOT been approved by the wetland regulatory agencies for permitting purposes. You are advised to contact the Oregon Division of State Lands and the U.S. Army Corps of Engineers with any regulatory questions. There may be additional wetlands within the study area that have not been identified. All wetlands, whether mapped or not, are subject to Federal and State permit requirements. There may also be areas of non-wetland within areas identified as wetlands on this map. In all cases, Federal and State agencies will use actual field conditions, rather than this map, to determine wetland boundaries.

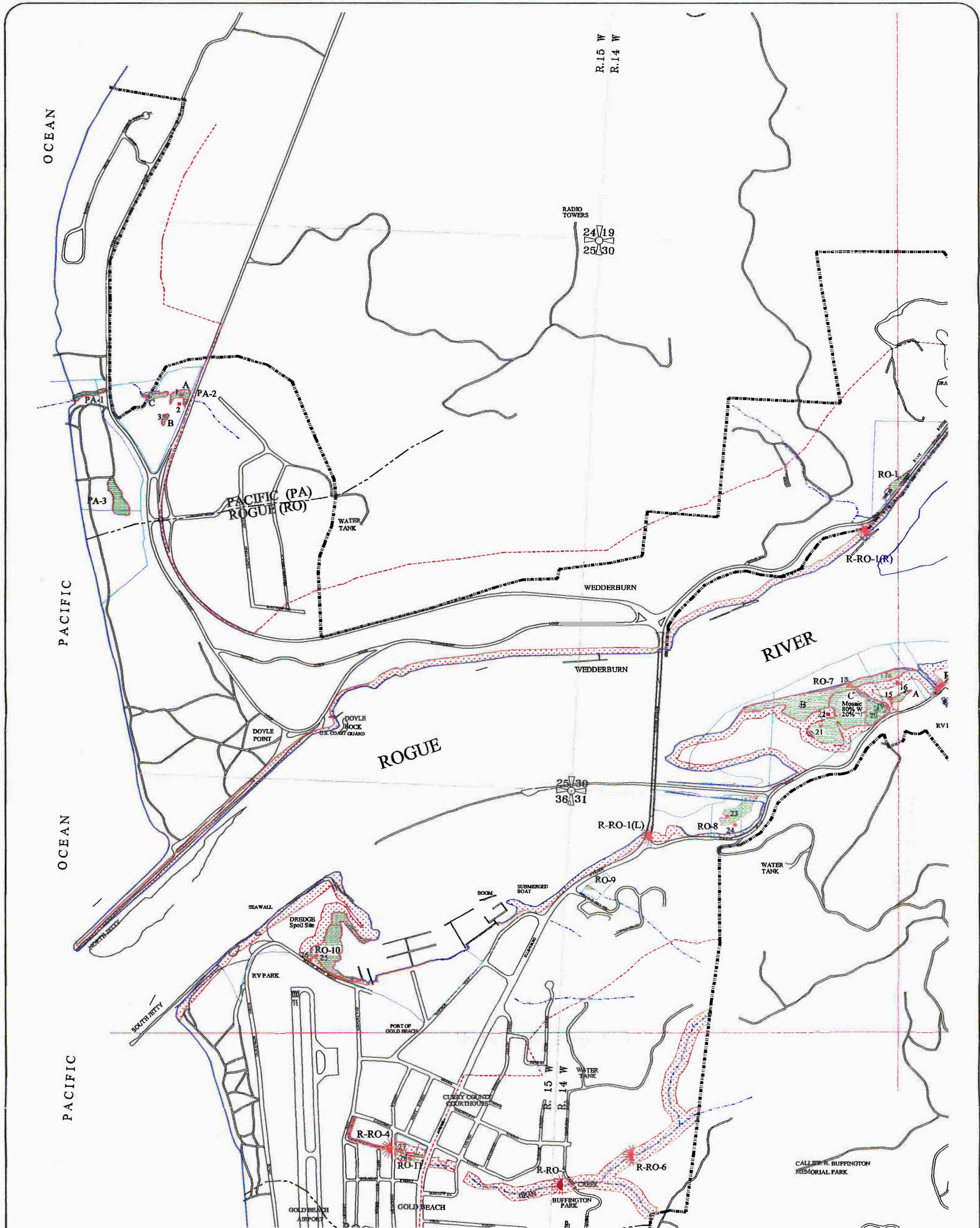
DATE: June, 2001
 BASE MAP INFO: Supplied by City of Gold Beach.
 DOGAMI, BLM 1997 Aerial Photographs
 JOB NO.: 2316

Gold Beach

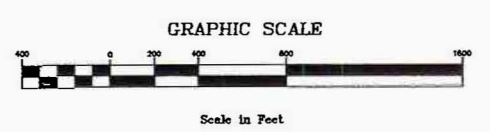
Local Wetlands and Riparian Inventory

Pacific Habitat Services, Inc.
 9450 SW Commerce Circle, Suite 180
 Wilsonville, Oregon 97070
 Phone: (503) 570-0800

FIGURE
3B



LEGEND	
Watershed Boundary	--- Affected Taxlot
Coastal Shorelands Planning Area (Goal 17)	- - - Potentially Jurisdictional Wetland
Drainage	- - - Major Marsh (Goal 17)
Urban Growth Boundary	- - - Locally Significant Wetland (Goal 5)
Riparian Observation Point	☀ Riparian Area
Riparian Code	R-H-2 Wetland Code
Upland	☑ Sample Point
	RO-1



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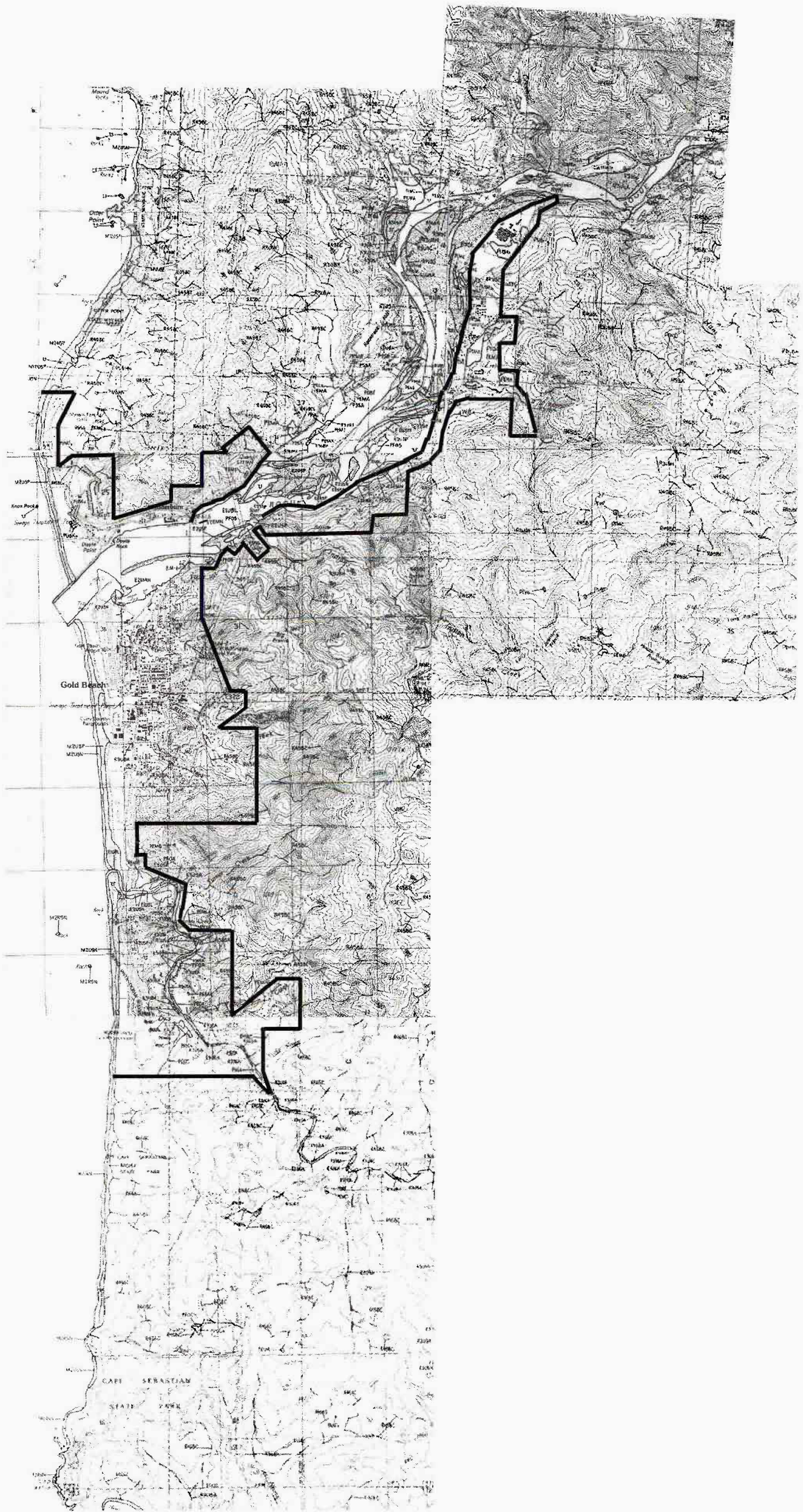
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Local Wetlands and Riparian Inventory

Pacific Habitat Services, Inc.
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 Wilsonville, Oregon 97070
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FIGURE
 3A



6/28/01

2316

FIGURE
2

National Wetlands Inventory for the Gold Beach Local Wetlands and Riparian Inventories (USFWS Cape Sebastian, Oregon Gold Beach, Oregon, 1998; Signal Buttes, Oregon, 1998).

Table 4. Wetland Areas Within Each Basin for the Gold Beach LWI

Watershed	Area (acres)	Wetland (acres)	Percent of basin that is wetland
Pacific Ocean	223.59	1.91	1%
Rogue River	972.71	44.11	5%
Riley Creek	332.67	0	0
Cunniff Creek	147.57	0	0
Hunter Creek	789.33	10.02	1%
Total Project Acreage	2,465.87	56.04	

7.2.2 Wetland Classification

Each wetland was classified according to the Cowardin and Hydrogeomorphic system. Palustrine emergent (PEM) wetlands are the dominant (46%) wetland type in the study area, totaling 25.62 acres. Palustrine unconsolidated bottom (PUB) wetlands were the second most common, due to the presence of the old Champion mill log ponds. Estuarine scrub shrub wetlands were third most common with areas totaling 7.01 acres (13%) and primarily located at the confluence of Indian Creek and the Rogue River.

Tables 5 and 6 summarize the wetland classifications for the Gold Beach LWI study area. Table 5 is a summary of the distribution of wetland classes within each basin. Table 6 (page 24) is a classification and acreage for each wetland.

Table 5. Types of Wetlands Within the Gold Beach LWI Study Area

Wetland Classification	Area (acres)	Percent of Wetlands
Palustrine forested (PFO)	0.08	<1%
Palustrine scrub-shrub (PSS)	4.27	8%
Palustrine emergent (PEM)	25.62	46%
Palustrine unconsolidated bottom (PUB)	14.64	26%
Estuarine scrub shrub (ESS)	7.01	13%
Estuarine emergent (EEM)	4.42	8%
Total	56.04	100%

Table 6. Cowardin Classification of all Wetlands Identified in the Gold Beach LWI

Wetland Code	USFWS Wetland Classification						Total Acreage
	PFO	PSS	PEM	PUBx	ESS	EEM	
PA-1		0.29					0.29
PA-2A			0.35				0.35
PA-2B			0.08				0.08
PA-2C			0.22				0.22
PA-3		0.09	0.77				0.86
PA-4			0.11				0.11
RO-1		0.22	0.10				0.32
RO-2A				3.10			3.10
RO-2B			1.22	10.97			12.19
RO-2C			1.62				1.62
RO-2D			0.58	0.57			1.15
RO-2E			0.18				0.18
RO-2F			0.08				0.08
RO-3			3.60				3.60
RO-4A			8.85				8.85
RO-4B			0.45				0.45
RO-5			0.62				0.62
RO-6A	0.08						0.08
RO-6B,C			0.05				0.05
RO-7A		0.04	0.18				0.22
RO-7B					3.13	0.78	3.91
RO-7C					3.88		3.88
RO-8						0.98	0.98
RO-9			0.04				0.04
RO-10						2.66	2.66
RO-11		0.13					0.13
HC-1			5.15				5.15
HC-2			0.06				0.06
HC-3		1.78	1.18				2.96
HC-4			0.13				0.13
HC-5		1.72					1.72
TOTAL	0.08	4.27	25.62	14.64	7.01	4.42	56.04

7.3 Oregon Freshwater Wetland Assessment Methodology Results

7.3.1 Wetland Quality Assessment

An assessment of the quality for each of the Goal 5 and Goal 17 wetlands identified through the inventory was conducted using the *Oregon Freshwater Assessment Methodology* (OFWAM) (Roth et al, April 1996). OFWAM assesses 6 functions and 3 conditions, as described in Section 3.3.1. Appendix C contains all of the results for each of the 32 wetlands assessed by the methodology along with summary sheets of the functions and conditions assessed by the methodology and the rationale for the results. Table 7 summarizes the wetlands within each of the two Statewide Planning Goal areas.

Table 7. Summary of Wetlands Within Goal 5 and Goal 17 Areas

GOAL 5	
RO-2A	RO-4A
RO-2B	RO-4B
RO-2C	RO-5
RO-2D	RO-6A
RO-2E	RO-6B
RO-2E	RO-6C
RO-2F	RO-11
RO-3	
GOAL 17	
PA-1	RO-1
PA-2A	RO-7A
PA-2B	RO-7B
PA-2C	RO-7C
PA-3	RO-8
PA-4	RO-9
HC-1	RO-10
HC-2	
HC-3	
HC-4	
HC-5	

Nine percent (9%) of the assessed wetlands provided diverse wildlife habitat and the other 91% provided wildlife habitat for some species. The majority (72%) of wetlands did not provide fish habitat and this function was therefore not applicable. Of the assessed wetlands, none were assessed with fish habitat intact, and 28% had fish habitat impacted or degraded due to lack of shade, instream structures, or channel modifications.

The water quality function was assessed as intact in 19% of the wetlands; impacted or degraded in 72% of the wetlands; and lost or not present in 9%. The generally low water quality function is due to lack of floodplain within the UGB, and groundwater or precipitation being the primary hydrology for many of the wetlands (as opposed to surface water).

Hydrologic control was generally assessed as impacted or degraded in 72% of the wetlands due to lack of floodplain, unrestricted outflow and downstream open space. Only 12% were assessed with hydrologic control intact and the remaining 16% were assessed with lost or not present function.

All the wetlands were considered to be potentially sensitive to future impacts due to existing or zoned development in adjacent lands. Wetlands were given a low or medium rating for educational or recreational opportunities in a majority of the wetlands due to their location on private lands, lack of public access or developed paths, and safety concerns associated with public access and physically-challenged access. The only wetlands that ranked as having recreational opportunities were those located adjacent to the Rogue River. Aesthetic quality of the wetlands was varied according to presence of major roads and noisy traffic, adjacent development, and number of Cowardin classes in the wetland. Forty-seven percent (47%), were considered to be aesthetically pleasing.

Although OFWAM provides qualitative information on the relative value of wetlands and does not have a numerical ranking, numbers were assigned to the assessment criteria in order to easily compare the results. A number 1 was assigned to wetlands receiving the highest function or condition result (e.g. intact, diverse), a number 3 was assigned to the wetlands receiving the lowest result (lost or not present, not appropriate), and a number 2 was assigned to the results which do not fit the other criteria (potential, impacted or degraded). This system is summarized in Table 8 (page 27).

Table 9 (page 28) shows the results of the quality assessment conducted on all of the wetlands identified through the inventory. Some functions or conditions were not applicable to certain wetlands. For instance the methodology states that if a wetland receives an assessment of “diverse wildlife habitat” then the enhancement potential assessment is not applicable. In addition, if there was no likelihood of fish habitat in the wetland, the fish habitat assessment was not completed.

Table 8. Key to the Oregon Freshwater Wetland Assessment Methodology Numerical Ranking

Wildlife Habitat	<ol style="list-style-type: none"> 1. <i>Wetland provides diverse wildlife habitat</i> 2. <i>Wetland provides habitat for some wildlife species</i> 3. <i>Wetland does not provide wildlife habitat</i>
Fish Habitat	<ol style="list-style-type: none"> 1. <i>Wetland's fish habitat function is intact</i> 2. <i>Wetland's fish habitat function is impacted or degraded</i> 3. <i>Wetland's fish habitat function is lost or not present</i>
Water Quality	<ol style="list-style-type: none"> 1. <i>Wetland's water-quality function is intact</i> 2. <i>Wetland's water-quality function is impacted or degraded</i> 3. <i>Wetland's water-quality function is lost or not present</i>
Hydrologic Control	<ol style="list-style-type: none"> 1. <i>Wetland's hydrologic control function is intact</i> 2. <i>Wetland's hydrologic control function is impacted or degraded</i> 3. <i>Wetland's hydrologic control function is lost or not present</i>
Sensitivity to Impact	<ol style="list-style-type: none"> 1. <i>Wetland is sensitive to future impacts</i> 2. <i>Wetland is potentially sensitive to future impacts</i> 3. <i>Wetland is not sensitive to future impacts</i>
Enhancement Potential	<ol style="list-style-type: none"> 1. <i>Wetland has high enhancement potential</i> 2. <i>Wetland has moderate potential for enhancement</i> 3. <i>Wetland has little enhancement potential</i>
Education	<ol style="list-style-type: none"> 1. <i>Wetland has educational uses</i> 2. <i>Wetland has potential for educational use</i> 3. <i>Wetland is not appropriate for educational use</i>
Recreation	<ol style="list-style-type: none"> 1. <i>Wetland provides recreational opportunities</i> 2. <i>Wetland has the potential to provide recreational activities</i> 3. <i>Wetland is not appropriate for or does not provide recreational opportunities</i>
Aesthetic Quality	<ol style="list-style-type: none"> 1. <i>Wetland is considered to be pleasing</i> 2. <i>Wetland is considered to be moderately pleasing</i> 3. <i>Wetland is not pleasing</i>

Table 9. Oregon Freshwater Wetland Assessment Methodology Numerical Ranking Results for the City of Gold Beach Local Wetlands Inventory

Wetland Code	Wildlife Habitat	Fish Habitat	Water Quality	Hydrologic Control	Sensitivity to Impact	Enhancement Potential	Education	Recreation	Aesthetic Quality	Size (acres)
PA-1	2	2	2	2	2	1	2	2	2	0.29
PA-2A	2	n/a	1	2	2	2	3	3	1	0.35
PA-2B	2	n/a	3	3	2	2	3	3	1	0.08
PA-2C	2	n/a	1	2	2	2	3	3	1	0.22
PA-3	2	n/a	3	3	2	2	1	2	1	0.86
PA-4	2	n/a	2	2	2	1	3	2	3	0.11
RO-1	2	n/a	2	2	2	1	3	3	2	0.32
RO-2A	2	2	2	2	2	1	3	3	3	3.10
RO-2B	2	2	2	2	2	1	3	3	3	12.19
RO-2C	2	n/a	2	2	2	1	3	3	3	1.62
RO-2D	2	2	2	2	2	1	3	3	3	1.15
RO-2E	2	n/a	2	2	2	1	3	3	3	0.18
RO-2F	2	n/a	2	2	2	1	3	3	3	0.08
RO-3	2	n/a	2	2	2	1	2	3	3	3.60
RO-4A	2	2	2	2	2	1	3	3	1	8.85
RO-4B	2	n/a	2	3	2	2	3	3	1	0.45
RO-5	2	n/a	2	3	2	2	3	3	1	0.62
RO-6A	2	n/a	3	2	2	2	3	3	1	0.08
RO-6B,C	2	n/a	3	3	2	2	3	3	1	0.05
RO-7A	2	n/a	2	2	2	1	2	2	1	0.22
RO-7B	1	1	1	2	2	n/a	3	1	2	3.91
RO-7C	1	n/a	1	2	2	n/a	3	1	2	3.88
RO-8	1	2	1	2	2	n/a	3	1	1	0.98
RO-9	2	n/a	2	2	2	2	3	3	3	0.04
RO-10	2	2	1	2	2	1	2	1	3	2.66
RO-11	2	2	2	1	2	1	3	3	3	0.13
HC-1	2	n/a	2	1	2	1	3	3	1	5.15
HC-2	2	n/a	2	3	2	2	3	3	1	0.06
HC-3	2	n/a	2	1	2	1	2	3	2	2.96
HC-4	2	n/a	2	2	2	1	3	3	1	0.13
HC-5	2	n/a	2	1	2	1	3	3	3	1.72

7.3.2 Wetlands of Special Interest for Protection

Each of the wetlands were assessed according to the ten questions in this section of OFWAM. These questions are regarding the presence of Federal or State listed threatened, endangered or sensitive species, existing management plans, conservation plans, protected mitigation areas, critical habitat, wetland reserve areas and the presence of uncommon wetland plant communities in Oregon.

These questions were answered “no” for the majority of wetlands, however wetlands immediately adjacent to the Rogue River, Hunter Creek, Saunders Creek and Indian Creek qualify as “wetlands of special interest for protection” due to essential salmonid habitat in those creeks. The following wetlands meet this criteria:

Table 10. Wetlands of Special Interest for Protection

RO-7B	RO-8	HC-1
RO-7C	RO-10	PA-4

8.0 SIGNIFICANT WETLANDS DETERMINATION

8.1 Distinction between Goals 5 and 17 Areas

OFWAM was applied to all Goal 5 and Goal 17 wetlands within the project area. Wetlands within the Goal 17 area, however, did not have the Locally Significant Wetland criteria applied, as those criteria only apply to Goal 5 wetlands. Instead, Significant Wetlands under Goal 17 are known as Major Marshes and are designated differently, as described in Section 8.4 -7.4.

Statewide Planning Goal 17 (Coastal Shorelands) defines the Coastal Shorelands Planning Area (CSPA) as: All lands west of the Oregon Coast Highway (Highway 101) and; all lands within an area defined by a line measured horizontally 1,000 feet from the shoreline of estuaries and 500 feet from the shoreline of coastal lakes (DLCD, 1996).

For the Gold Beach LWI, the CSPA includes all lands seaward from Highway 101 (i.e. west of Highway 101), and extends 1,000 feet from the edge of the Rogue River and Hunter Creek which are all tidally influenced coastal waters.

8.2 Goal 5 Locally Significant Wetlands Criteria

On September 1, 1996, the Land Conservation and Development Commission adopted a revised Statewide Planning Goal 5. Goal 5 is the planning goal for natural resources, scenic and historic areas, and open spaces. The goal requires local jurisdictions to inventory the natural resources covered under the goal, determine the significance of these resources, and develop plans to achieve the goal. In other words, local jurisdictions must adopt land use ordinances regulating development in and around significant areas.

Local jurisdictions determining significant wetlands must use the criteria recently adopted by the Oregon Division of State Lands (ORS 197.279(3)(b)). This criteria identifies *Locally Significant Wetlands*. The significance criteria is divided into three sections, as shown in Table 11.

Table 11. Criteria for Determining Goal 5 Locally Significant Wetlands

<p>Exclusions: A wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".</p>
<p>1 Is this wetland artificially created entirely from upland and:</p> <ul style="list-style-type: none"> a. created for the purpose of controlling, storing, or maintaining storm water b. is used for active surface mining or as a log pond c. is a ditch without a free and open connection to natural waters of the state d. is less than 1 acre and created unintentionally from irrigation or construction e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard <p>2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)</p>
<p>Mandatory Locally Significant Wetland Criteria: A wetland is locally significant if "Yes" is the answer to any of the criteria below.</p>
<p>1 Does the wetland provide <i>diverse wildlife habitat</i>?</p> <p>2 Is the wetland's <i>fish habitat function intact</i>?</p> <p>3 Is the wetland's <i>water quality function intact</i>?</p> <p>4 Is the wetland's <i>hydrologic control function intact</i>?</p> <p>5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i>?</p> <p>6 Does the wetland contain a rare plant community?</p> <p>7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?</p> <p>8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i>?</p>
<p>Optional Locally Significant Wetland Criteria: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below</p>
<p>1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i>.</p> <p>2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i>?</p>

8.3 Applying Significant Wetland Criteria to the LWI Study Area

8.3.1 Goal 5 Significant Wetlands

The Locally Significant Wetlands criteria were applied to all Goal 5 wetlands. The results of applying the criteria are included in Appendix D. These wetlands are shown in Table 12.

Table 12. Goal 5 Wetlands and Locally Significant Wetlands in the Gold Beach LWI

GOAL 5		
RO-2A	RO-2F	RO-6C
RO-2B	RO-3	RO-6A
RO-2C	RO-4A*	RO-6B
RO-2D	RO-4B	RO-11*
RO-2E	RO-5	

* Locally Significant Wetlands

Only two of the fourteen wetlands met the criteria for Locally Significant Wetlands. These two wetlands are technically within the Goal 17 CSPA, however they are included as Goal 5 wetlands as they do not derive their habitat quality from “association with coastal water areas” (LCDC, 1996). That is, they are not estuarine wetlands, but are derived from freshwater hydrology. The wetlands met the criteria for significance because of: surface water connection to the Rogue River, a water quality limited stream (RO-4A), and intact hydrologic control (RO-11). Although other wetlands within the Goal 5 area are relatively valuable for some functions, they do not satisfy the significant wetlands criteria.

8.4 Goal 17 Significant Wetlands (Major Marsh) Criteria

Significant wetlands under Goal 17 are known as Major Marshes. Unlike Goal 5, Goal 17 does not define or provide criteria for designating Major Marshes. The only reference to major marshes in the Goal’s *Identification of Coastal Shorelands* section, is “Areas of significant shoreland and wetland biological habitats whose habitat quality is primarily derived from or related to the association with coastal water areas.” The term “Major Marsh” is peculiar to Goal 17 and appears to not be used elsewhere in planning or wetland science.

Unlike estuarine wetlands, wetlands within the Goal 17 planning area originate principally from freshwater. Although they are located along the coast and derive much of their character from this landscape position, they are nevertheless similar to wetlands within the Goal 5 planning area. DLCDC now recognizes OFWAM as appropriate for assessing wetlands in both Goal 5 and Goal 17 planning areas.

Due to the similar nature of wetlands in the Goal 5 and the Goal 17 planning areas and the fact that all of the wetlands were assessed using OFWAM, PHS found it appropriate to base the Goal 17 Major Marsh criteria on the Goal 5 significant wetland criteria. The criteria has a

number of exclusions, including if the wetland has been identified as a dredge spoils site, or a water-dependent use (Marine Activity designation in local Comprehensive Plan). Wetlands already designated as one of these uses are already protected by the City of Gold Beach for that particular use.

The Goal 17 criteria are shown in Table 13. Appendix D shows the results of applying the criteria for Goal 17 wetlands.

Table 13. Criteria for Determining Major Marshes Within the Goal 17 Planning Area of Gold Beach

<p>Exclusions: A wetland cannot be designated as a Major Marsh if the answer to any of the criteria below is "Yes".</p>
<ol style="list-style-type: none"> 1 Is this wetland artificially created entirely from upland and: <ol style="list-style-type: none"> a. created for the purpose of controlling, storing, or maintaining storm water b. is used for active surface mining or as a log pond c. is a ditch without a free and open connection to natural waters of the state d. is less than 1 acre and created unintentionally from irrigation or construction e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? 4 Is the wetland or a portion of the wetland designated as a water dependent use in the comprehensive plan?
<p>Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a Major Marsh if "Yes" is the answer to any of the criteria below.</p>
<ol style="list-style-type: none"> 1 Does the wetland provide <i>diverse wildlife habitat</i>? 2 Is the wetland's <i>fish habitat function intact</i>? 3 Is the wetland's <i>water quality function intact</i>? 4 Is the wetland's <i>hydrologic control function intact</i> <u>and</u> <i>is the wetland within the 100-year floodplain</i>? 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i>? 6 Does the wetland contain a rare plant community? 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
<ol style="list-style-type: none"> 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek, Saunders Creek, Indian Creek or Pacific Ocean (water bodies mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i>?

As with Goal 5, the Goal 17 criteria for determining significance is not based on size. The committee that created the Goal 5 significance criteria determined that even relatively small wetlands might provide an important (or major) function in their particular landscape position. For example, a small wetland in an urban area may provide habitat for a rare, threatened, or endangered species. For this reason, PHS did not add the size of the wetland as one of the significance criteria. Therefore, we saw the term “major marsh” referring to the importance of the wetland and not necessarily to its size.

8.4.1. Goal 17 Major Marshes

The results of applying the criteria to each of the wetlands in the Goal 17 Coastal Shorelands Planning area are included in Table 14 below. Nine (9) of the Eighteen (18) Goal 17 wetlands satisfied the criteria for Major Marsh.

Table 14. Goal 17 Wetlands and Major Marshes in the Gold Beach LWI

GOAL 17		
PA-1	RO-1	HC-1*
PA-2A*	RO-7A	HC-2
PA-2B	RO-7B*	HC-3*
PA-2C*	RO-7C*	HC-4
PA-3	RO-8*	HC-5*
PA-4	RO-9	
	RO-10*	

* Major Marsh

9.0 RIPARIAN INVENTORY RESULTS

9.1 Location, Width and Quality of Riparian Areas

The *Urban Riparian Inventory and Assessment Guide* (Riparian Guide) (DSL 1998) was used to identify the width of riparian areas within the project area. The Riparian Guide is a method of determining the width of riparian areas adjacent to wetlands, creeks, and lakes (water resources). The Riparian Guide includes a riparian function assessment, which evaluates the ability of the riparian area to provide water quality, flood management, thermal regulation, and wildlife habitat functions. The results indicate whether the functional integrity of each reach is high, medium, or low. The widths, lengths and acreage of the riparian areas are listed in Table 15 (next page).

9.2 Riparian Acreage and Distribution

Thirty-four (34) riparian assessments were conducted in the project area associated with creeks and the Rogue River. Each riparian area was assigned a code and a modifier for right or left side, and a watershed code (e.g. R-RO-2L, R-RO-2R). A data sheet was compiled which documents the existing riparian characteristics and establishes the riparian width based on potential tree height (PTH) and actual site conditions (Appendix E). The majority of the assessments were on-site observation. Off-site assessments were based on observation from an off-site vantage point or review of maps and aerial photos.

Potential tree heights were generally based on either Sitka spruce (120-foot PTH), or red alder (65-foot PTH). Riparian areas on steep slopes were generally forested or potentially forested with the coniferous trees. Riparian areas in flatter topographic areas were generally dominated by early successional trees such as red alder. Figures 3A-3E show the location of the riparian assessments, the riparian reaches, and the width of the riparian areas. The following table summarizes the riparian area widths, lengths and potential tree heights.

Table 15. Riparian Corridors and Their Widths for the Gold Beach Riparian Inventory

RIPARIAN AREA CODE	Potential Tree Height (PTH) (ft)	Actual Riparian width (ft)	Riparian Area length (ft)
R-RO-1 L	65	10-65	7,200
R-RO-1 R	65	20-65	10,000
R-RO-2 L	65	20-65	10,400
R-RO-2 R	65	20-65	10,400
R-RO-3 L	65	65	10,800
R-RO-3 R	65	65	10,800
R-RO-4 L	35	5-10	650
R-RO-4 R	35	5-10	650
R-RO-5 L	65	65-20	1,500
R-RO-5 R	65	65-20	1,500
R-RO-6 L	65	65	2,800
R-RO-6 R	65	65	2,800
R-RO-7 L	65	65	800
R-RO-7 R	65	65	800
R-RI-8 L	35	10-35	1,150
R-RI-8 R	35	10-35	1,150
R-RI-9 L	65	10-65	1,200
R-RI-9 R	65	10-65	1,200
R-RI-10 L	65	20-65	1,600
R-RI-10 R	65	20-65	1,600
R-RI-11 L	65	20-65	5,200

Table 15, continued

RIPARIAN AREA CODE	Potential Tree Height (PTH) (ft)	Actual Riparian width (ft)	Riparian Area length (ft)
R-RI-11 R	65	20-65	5,200
R-RI-12 L	65	10-65	800
R-RI-12 R	65	10-65	800
R-CU-13 L	65	10-65	1,600
R-CU-13 R	65	10-65	1,600
R-HC-14 L	65	65	12,000
R-HC-14 R	65	65	11,600
R-HC-15 L	65	10-65	2,000
R-HC-15 R	65	10-65	2,000
R-HC-16 L	120	50-120	800
R-HC-16 R	120	50-120	800
R-CU-17 L	35	35	600
R-CU-17 R	35	10-35	600

As the table shows, the majority of riparian widths are based on the PTH of alder. In addition, many existing riparian areas are narrower than the PTH, indicating that development has encroached on many of the areas. The City currently has a setback of 50-feet from streams and 75-feet from the Rogue River.

9.3 Riparian Assessment Results

An assessment of four riparian functions, water quality, flood management, thermal regulation, and wildlife habitat, was conducted for each of the riparian areas. The questions and answer sheets for the riparian assessment are included in Appendix E. The riparian functions are described in Section 3.4.3.

The riparian assessment is completed by answering a series of questions relating to the riparian functions. Each answer is assigned a score that reflects its overall importance to the function. Questions that were answered “a” received a higher score than “c” answers. After the score was totaled for each function, it was assigned a rating of high (H), medium (M), or low (L) according to the results. Table 16 summarizes the results of the riparian functional assessment.

Table 16. Summary of Gold Beach's Riparian Functional Assessments

Riparian Code	Water Quality	Flood Management	Thermal Regulation	Wildlife Habitat
R-RO-1 L	M	M	M	M
R-RO-1 R	M	M	M	M
R-RO-2 L	H	M	H	M
R-RO-2 R	H	M	H	M
R-RO-3 L	H	M	H	H
R-RO-3 R	H	M	H	H
R-RO-4 L	M	L	L	L
R-RO-4 R	M	L	L	L
R-RO-5 L	H	M	M	M
R-RO-5 R	H	M	M	M
R-RO-6 L	H	M	H	H
R-RO-6 R	H	M	H	H
R-RO-7 L	H	M	H	H
R-RO-7 R	H	M	H	H
R-RI-8 L	H	M	M	M
R-RI-8 R	H	M	M	M
R-RI-9 L	M	L	H	M
R-RI-9 R	M	L	H	M
R-RI-10 L	M	L	H	M
R-RI-10 R	M	L	H	M
R-RI-11 L	H	M	H	H
R-RI-11 R	H	M	H	H
R-RI-12 L	H	H	H	H
R-RI-12 R	H	H	H	H
R-CU-13 L	M	L	L	L
R-CU-13 R	M	L	L	L
R-HC-14 L	H	H	M	H
R-HC-14 R	H	H	M	H
R-HC-15 L	H	L	H	M
R-HC-15 R	H	L	H	M
R-HC-16 L	H	M	H	H
R-HC-16 R	H	M	H	H
R-CU-17 L	H	M	H	M
R-CU-17 R	H	M	H	M

H = High M = Medium L = Low

Riparian areas along coastal waters are extremely important for a number of reasons. Goal 17 recognizes the importance of riparian vegetation along the coast and states in the *Identification Section* that coastal shorelands should at least include “Natural or man-made riparian resources, especially vegetation necessary to stabilize the shoreline and to maintain water quality and temperature necessary for the maintenance of fish habitat and spawning areas.” Due to the listing of several salmonids as Threatened under the Endangered Species Act by the National Marine Fisheries Service, protecting and restoring riparian areas has never been more important.

The majority of the riparian areas (82%) received a high assessment for at least one of the four functions. The majority (71%) provide a high water quality function due to a dominance of woody trees and shrubs in the riparian areas and low extents of impervious surfaces. Thermal regulation was also generally assessed with a high functional integrity, with 65% of the riparian assessed in this condition. The flood management function was generally ranked as medium or low due to steep topography within the riparian area, thereby limiting the potential for flooding.

Wildlife habitat was usually either medium or high for the riparian areas due to the presence of perennial surface water, well vegetated areas, and lack of impervious surfaces in the study area.

In general the riparian areas of Gold Beach are in relatively good condition, with the exception of reaches through developed neighborhoods and downtown, and along the north bank of the Rogue River, and lower south bank. These areas are developed for marine activities and the riparian vegetation has been removed.

10.0 PROJECT SUMMARY

- Pacific Habitat Services was hired to conduct a Local Wetlands Inventory and Riparian Inventory for the City of Gold Beach. The project area extends both north and south of the Rogue River within the Urban Growth Boundary of the City.
- The project area is approximately 2,466 acres, and includes portions of the Rogue River, Saunders Creek, Indian Creek, Dean Creek, Riley Creek, Cunniff Creek, and Hunter Creek.
- Field work was conducted between April and June 2001. Each wetland unit was assigned a unique code based on the hydrologic basin. A wetland characterization and wetland assessment was completed for each wetland unit. The wetland assessment was based on the *Oregon Freshwater Wetland Assessment Methodology*.
- The study area includes both Goal 5 and Goal 17 planning areas.
- Locally Significant Wetlands (Goal 5) were identified based on Oregon Administrative Rules. Major Marshes (Goal 17) were identified using a similar set of criteria.

- A total of 32 wetland units were identified in the Gold Beach project area, with a total acreage of approximately 56 acres.
- Palustrine emergent (PEM) wetlands are the dominant (46%) wetland type in the study area, totaling 25.62 acres. Palustrine unconsolidated bottom (PUB) wetlands were the second most common, due to the presence of the old Champion mill log ponds. Estuarine scrub shrub wetlands were third most common with areas totaling 7.01 acres (13%) and primarily located at the confluence of Indian Creek and the Rogue River.
- Six of the wetlands met the criteria for “wetlands of special interest for protection.”
- Two of the fourteen Goal 5 wetlands met the criteria for Locally Significant Wetlands.
- Nine of the eighteen Goal 17 wetlands met the criteria for Major Marsh.
- The riparian inventory assessed 34 areas associated with the Rogue River, Saunders Creek, Indian Creek, Dean Creek, Riley Creek, Cunniff Creek, and Hunter Creek.
- Riparian widths in the project area range from 5-to-120 feet, based on actual site conditions and potential tree height.
- Eighty-two percent (82%) of the riparian areas were assessed with at least one function (water quality, flood management, thermal regulation, wildlife habitat) as having high functional integrity.

11.0 REFERENCES

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- U.S.G.S. *7.5-minute topographic quadrangle, 1986 Provisional Edition. Gold Beach, Signal Butte, and Cape Sebastian, OR, 1:24,000*.

Appendix A

Wetland Characterization Sheets



Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	HC-1
Date(s) of field work:	8/8/01	Size (acres):	5.15
Data Sheet Numbers:	29-33	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	RFT

Location -- Legal:	T. 37S, R. 15W, Section 12
Other:	East of Hwy. 101, south of Hunter Creek Road at mouth of Hunter Creek
Tax Lots:	3715-12-00100
Hydrologic basin:	Hunter Creek
Soil -- Mapped series:	Brenner silt loam, 0-3% slopes
Hydrologic Source:	Surface water, groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
<i>Alnus rubra</i>	<i>Lonicera involucrata</i>		<i>Potentilla anserina</i>
	<i>Salix hookeriana</i>		<i>Juncus balticus</i>
	<i>Sambucus racemosa</i>		<i>Carex pachystachya</i>
			<i>Ranunculus repens</i>
			<i>Eleocharis ovata</i>
		HERBS	<i>Juncus lesueurii</i>
		<i>Oenanthe sarmentosa</i>	<i>Holcus lanatus</i>
		<i>Eleocharis palustris</i>	<i>Veronica americana</i>
		<i>Polygonum persicaria</i>	<i>Stachys cooleyae</i>
		<i>Equisetum arvense</i>	<i>Carex obnupta</i>

Comments: **Major Marsh**
 Large palustrine emergent wetland on north bank of Hunter Creek. Couple of small drainages through grazed field drain south to Hunter Creek. Areas of shallow ponding and saturation. May be subject to tidal flooding. Hillside seeps along north edge. Current land use is agricultural. Zoned residential. Within floodplain.
WETLAND OF SPECIAL INTEREST FOR PROTECTION.
 Adjacent Upland Species: *Cirsium vulgare*, *Heracleum lanatum*, *Achillea millefolium*, *Poa compressa*, *Trifolium pratense*, *Festuca arundinacea*, *Daucus carota*, *Rubus discolor*, *Anthoxanthum odoratum*, *Rumex acetosella*, *Iris douglasiana*, *Baccharus pilularis*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	HC-2
Date(s) of field work:	8/8/01	Size (acres):	0.06
Data Sheet Numbers:	34, 35	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	VS

Location -- Legal:	T. 37S, R. 15W, Section 12
Other:	East of Hwy. 101, south of Hunter Creek Road at mouth of Hunter Creek
Tax Lots:	3715-12-00100
Hydrologic basin:	Hunter Creek
Soil -- Mapped series:	Brenner silt loam, 0-3% slopes
Hydrologic Source:	Surface water, groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Athyrium filix-femina</i>
			<i>Juncus effusus</i>
			<i>Alopecurus geniculatus</i>
			<i>Ranunculus repens</i>
			<i>Eleocharis acicularis</i>
			<i>Rumex crispus</i>
			<i>Equisetum arvense</i>
			<i>Oenanthe sarmentosa</i>
			<i>Stachys cooleyae</i>

Comments:
 Small palustrine emergent wetland on north bank of Hunter Creek. Hydrology is from upslope seepage/groundwater. Current land use is agricultural (grazed). Zoned residential. Within floodplain.

 Rogue River (a water body listed by DEQ as a water quality limited

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	HC-3
Date(s) of field work:	5/8/01	Size (acres):	2.96
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM, PSS
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 37S, R. 15W, Section 12
Other:	Turtle Rock RV Park, south of Hunter Creek, east of Hwy. 101
Tax Lots:	3715-12A-00100
Hydrologic basin:	Hunter Creek
Soil -- Mapped series:	Heceta fine sand, 0-3% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
<i>Alnus rubra</i>	<i>Lonicera involucrata</i>		<i>Eleocharis palustris</i>
	<i>Salix hookeriana</i>		<i>Phalaris arundinacea</i>
	<i>Salix sitchensis</i>		<i>Carex obnupta</i>
			<i>Potentilla anserina</i>
			<i>Urtica dioica</i>
			<i>Equisetum arvense</i>

Comments: **Major Marsh**
 OFF-SITE. Turtle Rock RV Park. DSL Det. #99-1128, 99-0324, FP-16726. Former log pond. Combination of scrub shrub (60%) and emergent (40%) with areas of shallow inundation. Hydrology likely groundwater, precipitation. Zoned commercial. At least partially within floodplain. Adjacent land use is commercial RV park.

 Adjacent Upland Species: Rubus discolor, Rubus parviflorus, Digitalis purpurea, Holodiscus discolor, Sambucus racemosa

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	HC-4
Date(s) of field work:	5/22/01	Size (acres):	0.13
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 37S, R. 14W, Section 18
Other:	Mateer Road, east of Hunter Creek
Tax Lots:	3714-18B-00600
Hydrologic basin:	Hunter Creek
Soil -- Mapped series:	Yachats very fine sandy loam, 0-3% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Alnus rubra</i>		<i>Juncus effusus</i>
			<i>Rorippa nasturtium-aquaticum</i>

Comments:
 OFF-SITE. Small depressional emergent wetland at base of hill slope. Zoned residential. Adjacent land use is rural residential/pasture.

Adjacent Upland Species: *Rubus discolor*, *Rubus parviflorus*, *Digitalis purpurea*, *Pteridium aquilinum*, *Marah oreganus*, *Umbellularia californica*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	HC-5
Date(s) of field work:	5/22/01	Size (acres):	1.72
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PSS
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 37S, R. 14W, Section 18
Other:	Hunter Creek Loop, west of Hunter Creek
Tax Lots:	3714-18B-03402
Hydrologic basin:	Hunter Creek
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		
	<i>Salix sitchensis</i>		

Comments: **Major Marsh**
 OFF-SITE. Old log pond. Culvert under Hunter Creek Loop Road drains to Hunter Creek. Zoned Public Facility. Adjacent land use is Industrial. Within 100-year floodplain.

Adjacent Upland Species: *Rubus discolor*, *Rubus parviflorus*, *Cytisus scoparius*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	PA-1
Date(s) of field work:	5/22/01	Size (acres):	0.29
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PSS
Investigator(s):	PF, JVS	HGM Class(es):	RFT

Location -- Legal:	T. 36S, R. 15W, Section 25
Other:	Wedderburn, west of Hwy. 101, north of Knox Lane
Tax Lots:	3615-25-00900
Hydrologic basin:	Pacific Ocean
Soil -- Mapped series:	Frankport sand, thin surface 0-30% slope
Hydrologic Source:	Surface water

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Scirpus microcarpus</i>
			<i>Lotus corniculatus</i>
			<i>Veronica americana</i>
			<i>Rorippa nasturtium-aquaticum</i>
			<i>Angelica lucida</i>

Comments:
 OFF-SITE. Narrow drainage to ocean from under road to east. Drains to ocean beach. Zoned Conservation with adjacent land use open space or undeveloped residential. To east is long culvert under commercial development.

Adjacent Upland Species: *Cytisus scoparius*, *Ammophila arenaria*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	PA-2A
Date(s) of field work:	5/22/01	Size (acres):	0.35
Data Sheet Numbers:	1, 2	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	RFT

Location -- Legal:	T. 36S, R. 15W, Section 25
Other:	Wedderburn, west of Hwy. 101, south of Knox Lane
Tax Lots:	3615-25-00500
Hydrologic basin:	Pacific Ocean
Soil -- Mapped series:	Logsdan-Euchre complex, 0-3% slopes
Hydrologic Source:	Surface water, groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Juncus effusus</i>
			<i>Lotus corniculatus</i>
			<i>Ranunculus repens</i>
			<i>Mentha pulegium</i>
			<i>Holcus lanatus</i>
			<i>Plantago lanceolata</i>
			<i>Lysichitum americanum</i>
			<i>Phalaris arundinacea</i>
			<i>Equisetum arvense</i>

Comments: Major Marsh
 Grazed pasture with small drainage flowing along northern edge. Drains from culvert under Highway 101. Hydrologically connected to PA-1 and 2C by surface flow. Zoned commercial. Current land use is agricultural with adjacent small commercial operation. Small culvert under access drive in field.

Adjacent Upland Species: *Anthoxanthum odoratum*, *Iris douglasiana*, *Hypochaeris radicata*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	PA-2B
Date(s) of field work:	5/22/01	Size (acres):	0.08
Data Sheet Numbers:	N/A	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 15W, Section 25
Other:	Wedderburn, west of Hwy. 101, south of Knox Lane
Tax Lots:	3615-25-00500
Hydrologic basin:	Pacific Ocean
Soil -- Mapped series:	Logsdan-Euchre complex, 0-3% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
			<i>Juncus effusus</i>
			<i>Lotus corniculatus</i>
			<i>Agrostis tenuis</i>
			<i>Mentha pulegium</i>

Comments:
 Small isolated wetland in grazed pasture. Zoned commercial. Current land use is agricultural with adjacent small commercial operation.

Adjacent Upland Species: Anthoxanthum odoratum, Iris douglasiana, Hypochaeris radicata, Festuca arundinacea

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	PA-2C
Date(s) of field work:	5/22/01	Size (acres):	0.22
Data Sheet Numbers:	N/A	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	RFT

Location -- Legal:	T. 36S, R. 15W, Section 25
Other:	Wedderburn, west of Hwy. 101, south of Knox Lane
Tax Lots:	3615-25-00500
Hydrologic basin:	Pacific Ocean
Soil -- Mapped series:	Logsdon-Euchre complex, 0-3% slopes
Hydrologic Source:	Surface water, groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Juncus effusus</i>
	<i>Rubus spectabilis</i>		<i>Lotus corniculatus</i>
			<i>Ranunculus repens</i>
			<i>Mentha pulegium</i>
			<i>Holcus lanatus</i>
			<i>Plantago lanceolata</i>
			<i>Lysichitum americanum</i>
			<i>Phalaris arundinacea</i>
			<i>Equisetum arvense</i>

Comments: Major Marsh
 Grazed pasture with small drainage flowing along northern edge. Drains from culvert under Highway 101. Hydrologically connected to PA-1 and 2A by surface flow. Zoned commercial. Current land use is agricultural with adjacent small commercial operation. Small culvert under access drive in field.

Adjacent Upland Species: *Anthoxanthum odoratum*, *Iris douglasiana*, *Hypochaeris radicata*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	PA-3
Date(s) of field work:	5/22/01	Size (acres):	0.86
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM, PSS
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 15W, Section 25
Other:	Wedderburn, west of Hwy. 101, north of sewage treatment ponds
Tax Lots:	3615-25-00900
Hydrologic basin:	Pacific Ocean
Soil -- Mapped series:	Frankport sand, thin surface 0-30% slope
Hydrologic Source:	Groundwater, precipitation

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Mentha pulegium</i>
	<i>Lonicera involucrata</i>		<i>Juncus lesueurii</i>
			<i>Equisetum hyemale</i>
			<i>Carex lyngbei</i>
			<i>Plantago lanceolata</i>
			<i>Festuca rubra</i>
			<i>Anagallis arvensis</i>

Comments:
 OFF-STIE. Isolated depressional wetland in dune west of Highway 101. Zoned Conservation with adjacent land use open space.

Adjacent Upland Species: *Festuca arundinacea*, *Baccharis pilularis*, *Rubus ursinus*, *Cytisus scoparius*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	PA-4
Date(s) of field work:	5/22/01	Size (acres):	0.11
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	RFT

Location -- Legal:	T. 37S, R. 15W, Section 12
Other:	South end, west of Hwy. 101, north of Hunter Creek
Tax Lots:	3715-12-00300
Hydrologic basin:	Pacific Ocean
Soil -- Mapped series:	Frankport sand, thin surface 0-30% slope
Hydrologic Source:	Surface water, groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
			<i>Juncus lesueurii</i>

Comments:
 OFF-SITE. Wetland mitigation area (DSL Permit #22493). Excavated area adjacent to fill pad. Small drainage is culverted under fill to wetland. Mostly unvegetated. Gold Beach Associates plans to build commercial rental cottages. Zoned commercial. Adjacent land use is open space zoned Conservation. WETLAND OF SPECIAL INTEREST FOR PROTECTION.
 Adjacent Upland Species: *Ammophila arenaria*, *Cytisus scoparius*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-1
Date(s) of field work:	5/8/01	Size (acres):	0.32
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PSS, PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 30
Other:	North Bank Rogue River Road
Tax Lots:	3614-30-00301
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Rustybutte-Sebastian-Rock outcrop complex, 30-60% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Typha latifolia</i>
	<i>Lonicera involucrata</i>		<i>Juncus effusus</i>
	<i>Alnus rubra</i>		<i>Scirpus microcarpus</i>
			<i>Polygonum sp.</i>

Comments:
 OFF-SITE. Depressional wetland located at base of slope and adjacent to north side of road. Drains via 2 culverts to Rogue River. Standing and flowing water. Zoned residential. Adjacent land use is industrial and marine activity.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Physocarpus capitatus*, *Rubus parviflorus*, *Ribes sanguineum*, *Festuca arundinacea*, *Rhamnus purshiana*, *Marah oreganus*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-2A
Date(s) of field work:	5/8/01	Size (acres):	3.10
Data Sheet Numbers:	N/A	Cowardin Class(es):	PUBx
Investigator(s):	PF, JVS	HGM Class(es):	DCP

Location -- Legal:	T. 36S, R. 14W, Section 16
Other:	Mill site, Jerrys Flat Road
Tax Lots:	3614-16-00300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
			<i>Typha latifolia</i>
			<i>Juncus effusus</i>
			<i>Scirpus microcarpus</i>
			<i>Polygonum sp.</i>
			<i>Eleocharis palustris</i>

Comments:
 Old mill site, northernmost pond. Disturbed site and wetland fringe. Hydrologically connected to RO-2B by culvert. Zoned industrial. Adjacent land use is forestry and open space.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Cytisus scoparius*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-2B
Date(s) of field work:	5/8/01	Size (acres):	12.19
Data Sheet Numbers:	N/A	Cowardin Class(es):	PUBx, PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCP

Location -- Legal:	T. 36S, R. 14W, Section 16
Other:	Mill site, Jerrys Flat Road
Tax Lots:	3614-16-00300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Typha latifolia</i>
	<i>Alnus rubra</i>		<i>Juncus effusus</i>
			<i>Scirpus microcarpus</i>
			<i>Polygonum sp.</i>
			<i>Eleocharis palustris</i>
			<i>Phalaris arundinacea</i>
			<i>Cyperus sp.</i>
			<i>Alisma gramineum</i>

Comments:
 Old mill site, largest pond. Disturbed site and wetland fringe. Hydrologically connected to RO-2A, 2C, and 2D. Zoned industrial. Adjacent land use is forestry and open space.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Cytisus scoparius*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-2C
Date(s) of field work:	5/8/01	Size (acres):	1.62
Data Sheet Numbers:	4	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DO

Location -- Legal:	T. 36S, R. 14W, Section 16
Other:	Mill site, Jerrys Flat Road
Tax Lots:	3614-16-00300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
			<i>Typha latifolia</i>
			<i>Juncus effusus</i>
			<i>Agrostis stolonifera</i>
			<i>Phalaris arundinacea</i>
			<i>Eleocharis palustris</i>
			<i>Holcus lanatus</i>
			<i>Agrostis tenuis</i>

Comments:
 Old mill site. Wet emergent area connected by shallow ditch to RO-2B. Disturbed site and wetland fringe with very compacted soils. Zoned industrial. Adjacent land use is forestry and open space.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Cytisus scoparius*, *Vicia sativa*, *Festuca arundinacea*, *Parentucellia viscosa*, *Cynosurus echinatus*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HIS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-2D
Date(s) of field work:	5/8/01	Size (acres):	1.15
Data Sheet Numbers:	5, 6	Cowardin Class(es):	PUBx, PEM
Investigator(s):	PF, JVS	HGM Class(es):	RFT

Location -- Legal:	T. 36S, R. 14W, Section 16
Other:	Mill site, Jerrys Flat Road
Tax Lots:	3614-16-00300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Groundwater, surface water

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Alnus rubra</i>		<i>Rumex crispus</i>
			<i>Juncus effusus</i>
			<i>Holcus lanatus</i>
			<i>Agrostis stolonifera</i>

Comments:
 Old mill site, drainage channel along southern edge. Drains south and culverted under Jerrys Flat Road. Hydrologically connected to RO-2B by surface water. Disturbed site and wetland fringe. Zoned industrial. Adjacent land use is forestry and old log decks.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Cytisus scoparius*, *Cynosurus echinatus*, *Festuca arundinacea*, *Parentucellia viscosa*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-2E
Date(s) of field work:	5/8/01	Size (acres):	0.18
Data Sheet Numbers:	N/A	Cowardin Class(es):	PSS
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 16
Other:	Mill site, Jerrys Flat Road
Tax Lots:	3614-16-00300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Alnus rubra</i>		<i>Typha latifolia</i>
	<i>Salix hookeriana</i>		<i>Juncus effusus</i>
			<i>Agrostis stolonifera</i>

Comments:
 Old mill site. Small scrub shrub area adjacent to RO-2B. Disturbed site and wetland fringe with very compacted soils. Zoned industrial. Adjacent land use is industrial and forestry .

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Cytisus scoparius*, *Vicia sativa*, *Festuca arundinacea*, *Parentucellia viscosa*, *Cynosurus echinatus*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
IIS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-2F
Date(s) of field work:	5/8/01	Size (acres):	0.08
Data Sheet Numbers:	N/A	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 16
Other:	Mill site, Jerrys Flat Road
Tax Lots:	3614-16-00300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Precipitation

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Alnus rubra</i>		<i>Typha latifolia</i>
	<i>Salix hookeriana</i>		<i>Juncus effusus</i>
			<i>Agrostis stolonifera</i>

Comments:
 Old mill site. Small scrub shrub area adjacent to RO-2B. Disturbed site and wetland fringe with very compacted soils. Zoned industrial. Adjacent land use is industrial and forestry .

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Cytisus scoparius*, *Vicia sativa*, *Festuca arundinacea*, *Parentucellia viscosa*, *Cynosurus echinatus*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-3
Date(s) of field work:	5/8/01	Size (acres):	3.60
Data Sheet Numbers:	7, 8	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 16
Other:	Mill site, Jerrys Flat Road
Tax Lots:	3614-16-00300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Urban Land
Hydrologic Source:	Precipitation, groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Alnus rubra</i>		<i>Mentha arvensis</i>
	<i>Salix hookeriana</i>		<i>Juncus effusus</i>
			<i>Agrostis stolonifera</i>
			<i>Cyperus acuminatus</i>
			<i>Rumex crispus</i>
			<i>Juncus bolanderi</i>
			<i>Mentha pulegium</i>
			<i>Trifolium wormskioldii</i>

Comments:
 Old mill site. Area of old log decks with shallow swales separated by upland mounds. Disturbed site with very compacted soils. Zoned industrial. Adjacent land use is industrial and forestry .

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Linum perenne*, *Rubus ursinus*, *Cytisus scoparius*, *Vicia sativa*, *Festuca arundinacea*, *Parentucellia viscosa*, *Cynosurus echinatus*, *Hypochaeris radicata*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-4A
Date(s) of field work:	5/8/01	Size (acres):	8.85
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 21
Other:	Jerrys Flat Road
Tax Lots:	3614-21-00600, 00100, 02000
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Ekoms loam, 0-12% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Alnus rubra</i>		<i>Scirpus microcarpus</i>
	<i>Salix hookeriana</i>		<i>Juncus effusus</i>
			<i>Agrostis stolonifera</i>
			<i>Lysichitum americanum</i>
			<i>Rumex crispus</i>
			<i>Carex obnupta</i>
			<i>Phalaris arundinacea</i>

Comments: Locally Significant Wetland
 OFF-SITE. Large palustrine wet meadow with small stream flowing along northern edge. Drains southwest to side channel of Rogue River. Zoned residential. Adjacent land use is residential. Goal 5 wetland within the Goal 17 Coastal Shorelands Planning Area.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Festuca arundinacea*, *Picea sitchensis*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DGP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-4B
Date(s) of field work:	5/8/01	Size (acres):	0.45
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 21
Other:	Jerrys Flat Road
Tax Lots:	3614-21-00600
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Ekoms loam, 0-12% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Alnus rubra</i>		<i>Scirpus microcarpus</i>
	<i>Salix hookeriana</i>		<i>Juncus effusus</i>
			<i>Agrostis stolonifera</i>
			<i>Lysichitum americanum</i>
			<i>Rumex crispus</i>
			<i>Carex obnupta</i>
			<i>Phalaris arundinacea</i>

Comments:
 OFF-SITE. Small palustrine wet meadow separated from RO-4A by upland. Zoned residential. Adjacent land use is rural residential and undeveloped pasture.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Festuca arundinacea*, *Picea sitchensis*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-5
Date(s) of field work:	5/8/01	Size (acres):	0.62
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 21
Other:	Jerrys Flat Road
Tax Lots:	3614-21-02000
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Nestucca silt loam, 0-3% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS

Comments:
 OFF-SITE. Area was mapped on the National Wetlands Inventory map, however we were not able to view it. Zoned residential. Adjacent land use is residential and pasture.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Festuca arundinacea*, *Picea sitchensis*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-6A
Date(s) of field work:	5/8/01	Size (acres):	0.08
Data Sheet Numbers:	9, 10	Cowardin Class(es):	PFO
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 21
Other:	Saunders Creek Road
Tax Lots:	3614-21-02100
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Nestucca silt loam, 0-3% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
<i>Fraxinus latifolia</i>	<i>Fraxinus latifolia</i>		<i>Mentha arvensis</i>
			<i>Juncus patens</i>
			<i>Carex feta</i>
			<i>Ranunculus repens</i>
			<i>Oenanthe sarmentosa</i>

Comments:
 Area was mapped on the National Wetlands Inventory map, however not nearly as extensive as shown. Small forested area at north end of pasture. Zoned residential. Adjacent land use is residential and forestry.

Adjacent Upland Species: *Rhus diversiloba*, *Berberis nervosa*, *Rubus ursinus*, *Umbellularia californica*, *Arbutus menziesii*, *Acer macrophyllum*, *Malus domestica*, *Abies grandis*, *Crataegus monogyna*, *Rhamnus purshiana*, *Polystichum munitum*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-6B, 6C
Date(s) of field work:	5/8/01	Size (acres):	0.05
Data Sheet Numbers:	11, 12, 13, 14	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 21
Other:	Saunders Creek Road
Tax Lots:	3614-21-02100
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Nestucca silt loam, 0-3% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
			<i>Mentha arvensis</i>
			<i>Juncus effusus</i>
			<i>Carex feta</i>
			<i>Ranunculus repens</i>
			<i>Mentha pulegium</i>
			<i>Trifolium repens</i>
			<i>Holcus lanatus</i>
			<i>Anagallis arvensis</i>
			<i>Carex obnupta</i>

Comments:
 Area was mapped on the National Wetlands Inventory map, however not nearly as extensive as shown. Small depressions in field with evidence of seasonal ponding. Narrow drainage ditch through field drains to west (not wetland). Zoned residential. Adjacent land use is residential and forestry.

Adjacent Upland Species: *Festuca arundinacea*, *Vicia sativa*, *Daucus carota*, *Achillea millefolium*, *Trifolium dubium*, *Chrysanthemum leucanthemum*, *Cynosurus echinatus*, *Rubus ursinus*, *Polystichum munitum*, *Cirsium arvense*, *Iris douglasiana*, *Anthoxanthum odoratum*, *Pteridium aquilinum*, *Agrostis tenuis*, *Rhus diversiloba*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-7A
Date(s) of field work:	5/8/01	Size (acres):	0.22
Data Sheet Numbers:	15, 16	Cowardin Class(es):	PEMx, PSS
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 30
Other:	Jerrys Flat Road at Indian Creek and Rogue River
Tax Lots:	3614-30D-00600
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Yachats very fine sandy loam, 0-3% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Typha latifolia</i>
	<i>Alnus rubra</i>		<i>Scirpus microcarpus</i>
			<i>Potentilla anserina</i>
			<i>Eleocharis palustris</i>
			<i>Phalaris arundinacea</i>
			<i>Scirpus validus</i>
			<i>Juncus bolanderi</i>
			<i>Scirpus americana</i>
			<i>Carex obnupta</i>
			<i>Equisetum arvense</i>

Comments:
 Small excavated pond area in area between the Rogue River and Jerry's Flat Road at Indian Creek. Palustrine emergent (80%) and scrub shrub (20%). May seasonally receive overflow from river. Adjacent land use is undeveloped open space. Zoned commercial. Within 100-year floodplain.

Adjacent Upland Species: *Festuca arundinacea*, *Chrysanthemum leucanthemum*, *Cirsium arvense*, *Bromus carinatus*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
IIS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-7B
Date(s) of field work:	5/8/01	Size (acres):	3.91
Data Sheet Numbers:	17, 18, 19	Cowardin Class(es):	EEM, ESS
Investigator(s):	PF, JVS	HGM Class(es):	EFR

Location -- Legal:	T. 36S, R. 14W, Section 30
Other:	Jerrys Flat Road at Indian Creek and Rogue River
Tax Lots:	3614-30D-00501, 00600, 01100, 01000
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Yachats very fine sandy loam, 0-3% slopes
Hydrologic Source:	Surface water

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Potentilla anserina</i>
	<i>Alnus rubra</i>		<i>Lilaeopsis occidentalis</i>
			<i>Equisetum arvense</i>
			<i>Eleocharis palustris</i>
			<i>Juncus lesueurii</i>
			<i>Festuca rubra</i>

Comments: **Major Marsh**
 Estuarine fringe along river and extending into narrow channel to east. Between the Rogue River and Jerry's Flat Road at Indian Creek. Excavated pond at one end. Estuarine emergent (20%) and scrub shrub (80%). Tidally influenced. Adjacent land use is undeveloped open space. Zoned commercial. Within 100-year floodplain. WETLAND OF SPECIAL INTEREST FOR PROTECTION.
 Adjacent Upland Species: Bromus rigidus, Cirsium arvense, Cytisus scoparius

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DGP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-7C
Date(s) of field work:	5/8/01	Size (acres):	3.88
Data Sheet Numbers:	20, 21, 22	Cowardin Class(es):	ESS
Investigator(s):	PF, JVS	HGM Class(es):	EFR

Location -- Legal:	T. 36S, R. 14W, Section 30
Other:	Jerrys Flat Road at Indian Creek and Rogue River
Tax Lots:	3614-30D-01100
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Yachats very fine sandy loam, 0-3% slopes
Hydrologic Source:	Surface water

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Potentilla anserina</i>
	<i>Alnus rubra</i>		<i>Phalaris arundinacea</i>
			<i>Equisetum arvense</i>

Comments: **Major Marsh**
 Estuarine scrub shrub area along river between the Rogue River and Jerry's Flat Road at Indian Creek. Wetland (80%)/ upland (20%) mosaic. Adjacent land use is undeveloped open space. Zoned commercial. Within 100-year floodplain. WETLAND OF SPECIAL INTEREST FOR PROTECTION.

Adjacent Upland Species: *Cirsium arvense*, *Cytisus scoparius*, *Festuca arundinacea*, *Rubus discolor*, *Bromus rigidus*, *Cynosurus echinatus*, *Baccharis pilularis*, *Bellis perennis*, *Anthoxanthum odoratum*, *Lolium perenne*, *Daucus carota*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-8
Date(s) of field work:	5/8/01	Size (acres):	0.98
Data Sheet Numbers:	17, 18, 19	Cowardin Class(es):	EEM
Investigator(s):	PF, JVS	HGM Class(es):	EFR

Location -- Legal:	T. 36S, R. 14W, Section 30
Other:	Jerrys Flat Road south of levee and east of bridge
Tax Lots:	3614-30-00900, 01000
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Yachats very fine sandy loam, 0-3% slopes
Hydrologic Source:	Surface water

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Potentilla anserina</i>
	<i>Alnus rubra</i>		<i>Lilaeopsis occidentalis</i>
	<i>Lonicera involucrata</i>		<i>Carex obnupta</i>
			<i>Deschampsia cespitosa</i>
			<i>Juncus lesueurii</i>

Comments: **Major Marsh**
 Estuarine fringe along river between the Rogue River levee and Jerry's Flat Road, east of Hwy. 101 bridge. Tidally influenced. Adjacent land use is undeveloped open space (river) and residential. Zoned residential. Within 100-year floodplain. WETLAND OF SPECIAL INTEREST FOR PROTECTION.

Adjacent Upland Species: *Myrica californica*, *Polystichum munitum*, *Rubus parviflorus*, *Rubus ursinus*, *Festuca arundinacea*, *Disporum hookeri*, *Cytisus scoparius*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA- Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-9
Date(s) of field work:	5/22/01	Size (acres):	0.04
Data Sheet Numbers:	OFF-SITE	Cowardin Class(es):	PEM
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 14W, Section 31
Other:	South of Hwy. 101 Bridge, base of Tom Cat Hill Road
Tax Lots:	3614-31BB-00800
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Rustybutte-Sebastian complex 30-60% slopes
Hydrologic Source:	Groundwater

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
			<i>Scirpus microcarpus</i>
			<i>Juncus effusus</i>
			<i>Juncus bolanderi</i>
			<i>Equisetum arvense</i>
			<i>Sisyrinchium idahoense</i>

Comments:
 OFF-SITE. Small drainage from steep hill (Tom Cat Hill) drains towards river. Site used to have building on it (1997 photograph). Drainage channel is partially in a concrete flume, bypasses a clogged drain inlet and ponds at Hwy. 101.

Adjacent Upland Species: *Rubus discolor*, *Baccharis pilularis*, *Festuca arundinacea*, *Picea sitchensis*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
IIS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-10
Date(s) of field work:	5/22/01	Size (acres):	2.66
Data Sheet Numbers:	25, 26	Cowardin Class(es):	EEM
Investigator(s):	PF, JVS	HGM Class(es):	EFR

Location -- Legal:	T. 36S, R. 15W, Section 36
Other:	Port of Gold Beach property at west end of marina
Tax Lots:	3614-30-00100
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Yachats very fine sandy loam, 0-3% slopes
Hydrologic Source:	Surface water

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
			<i>Potentilla anserina</i>
			<i>Scirpus americanus</i>
			<i>Carex lyngbei</i>
			<i>Deschampsia cespitosa</i>
			<i>Eleocharis palustris</i>

Comments: **Major Marsh**
 Estuarine emergent fringe between the Rogue River levee and airport runway. Tidally influenced. Adjacent land use is marina/ public facility. Zoned Public Facility. Within 100-year floodplain. WETLAND OF SPECIAL INTEREST FOR PROTECTION.

Adjacent Upland Species: *Festuca arundinacea*, *Ammophila arenaria*, *Rumex crispus*, *Plantago lanceolata*, *Cytisus scoparius*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Wetland Characterization Sheet



Project Name: Gold Beach LWI

		Wetland Code:	RO-11
Date(s) of field work:	5/7/01	Size (acres):	0.13
Data Sheet Numbers:	27, 28	Cowardin Class(es):	PSS
Investigator(s):	PF, JVS	HGM Class(es):	DCNP

Location -- Legal:	T. 36S, R. 15W, Section 36
Other:	Dean Creek between Caughell and Strahan Streets, west of Hwy. 101
Tax Lots:	3615-36DB-02300
Hydrologic basin:	Rogue River
Soil -- Mapped series:	Hebo silty clay loam, 0-7% slopes
Hydrologic Source:	Surface water

Dominant Wetland Vegetation			
TREES	SHRUBS	VINES	HERBS
	<i>Salix hookeriana</i>		<i>Lysichiton americanum</i>
	<i>Rosa eglanteria</i>		<i>Equisetum arvense</i>
	<i>Alnus rubra</i>		<i>Ranunculus repens</i>
			<i>Urtica dioica</i>

Comments: Locally Significant Wetland
 Dean Creek drainage through residential/commercial area. Narrow swath of wetland associated with channel. Zoned commercial. Adjacent land use is residential and commercial. Goal 5 wetland within the Goal 17 Coastal Shorelands Planning Area.

Adjacent Upland Species: *Bromus carinatus*, *Polystichum munitum*, *Hedera helix*, *Crococsmia*, *Rubus discolor*, *Pinus contorta*

COWARDIN CODES:	E2FO = estuarine forested	E2SS = estuarine scrub shrub	E2EM = estuarine emergent
PFO = palustrine forested	PSS = palustrine scrub-shrub	PEM = palustrine emergent	POW = palustrine open water
HGM CODES:	EFB = Estuarine Fringe Embayment	EFR = Estuarine Fringe Riverine	RFT = Riverine Flow Through
RI = River Impounding	LFH = Lacustrine Fringe Headwater	LFV = Lacustrine Fringe Valley	DB = Depressional Bog
DA = Depressional Alkaline	DO = Depressional Outflow	DCP = Depressional Closed Permanent	DCNP = Depressional Nonpermanent
HS = Headwater Slope	VS = Valley Slope		

Appendix B

Wetland Determination Data Forms





Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: HC-1-29			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 37S		Range: 15W Section: 12			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY			Primary Indicators		Secondary Indicators		
			Inundated		Ox. rhizospheres Yes		
			Sat. in Upper 12"		H2O-stained leaves		
Depth of Surf. H2O Inches			Water Marks		Local Soil Survey		
Depth to Free H2O >16 Inches			Drift Lines		FAC Neutral Test		
Depth to Saturation >16 Inches			Sediment Deposits		Other _____		
			Drainage patterns Yes		Criteria Met: Yes		
SOILS		Mapped Series: Brenner silt loam		Hydric Soil?: Yes			
		Classification: Aeric Tropaquepts		Drainage Class: poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-8	10YR 2/1	SL					
8-16	4/N	SCL	5YR 4/6	many, medium, prominent			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Potentilla anserina</i> *		OBL	35
				<i>Juncus balticus</i> *		FACW+	25
				<i>Carex pachystachya</i>		FAC	10
				<i>Ranunculus repens</i> *		FACW	20
				<i>Eleocharis ovata</i>		OBL	10
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments:							
						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: HC-1-30			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 37S		Range: 15W Section: 12			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >14 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >14 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Riverwash		Hydric Soil?: Yes			
		Classification: Fluvents & Fluvaquents		Drainage Class: excessively to poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-14	10YR 3/2	SL					
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: No	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (90%)		Status	% Cover
				<i>Cirsium vulgare</i>		FACU	5
				<i>Heracleum lanatum</i>		FAC+	5
				<i>Achillea millefolium</i>		FACU	10
				<i>Poa compressa*</i>		FACU+	20
				<i>Trifolium pratense*</i>		FACU	20
				<i>Equisetum arvense</i>		FAC	5
Shrub Stratum (0%)		Status	% Cover	<i>Festuca arundinacea*</i>		FAC-	20
				<i>Daucus carota</i>		UPL	5
				Woody Vine Stratum (10%)		Status	% Cover
				<i>Rubus discolor*</i>		FACU	100
*Percent of dominant species FAC, FACW, or OBL: 0%						Criteria Met: No	
Comments:							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: HC-1-31			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 37S		Range: 15W Section: 12			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated Yes		Ox. rhizospheres			
		Sat. in Upper 12" Yes		H2O-stained leaves			
Depth of Surf. H2O 1 Inches		Water Marks		Local Soil Survey			
Depth to Free H2O Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation 0 Inches		Sediment Deposits		Other 			
		Drainage patterns		Criteria Met: Yes			
SOILS		Mapped Series: Brenner silt loam		Hydric Soil?: Yes			
		Classification: Aeric Tropaquepts		Drainage Class: poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-12	2.5/5G	L				gravelly, refused at 12 inches	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum (20%)		Status	% Cover	Herbaceous Stratum (70%)		Status	% Cover
<i>Alnus rubra</i>		FAC	100	<i>Oenanthe sarmentosa</i> *		OBL	40
				<i>Ranunculus repens</i>		FACW	10
				<i>Juncus lesueurii</i>		FACW	10
				<i>Holcus lanatus</i>		FAC	10
				<i>Veronica americana</i> *		OBL	20
Shrub Stratum (10%)		FAC+	100	<i>Stachys cooleyae</i>		FACW	5
				Woody Vine Stratum (0%)		Status	% Cover
<i>Lonicera involucrata</i> *							
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments:						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: HC-1-32			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 37S		Range: 15W Section: 12			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >16 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Brenner silt loam		Hydric Soil?: Yes			
		Classification: Aeric Tropaquepts		Drainage Class: poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-16	10YR 2/2	SD					
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: No	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Anthoxanthum odoratum</i> *		FACU	30
				<i>Rumex acetosella</i> *		FACU+	20
				<i>Equisetum hyemale</i>		FACW	10
				<i>Juncus lesueurii</i>		FACW	10
				<i>Lolium perenne</i>		FACU	15
				<i>Lotus corniculatus</i>		FAC	10
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 0%						Criteria Met: No	
Comments:						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: HC-1-33			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 37S		Range: 15W Section: 12			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY			Primary Indicators		Secondary Indicators		
			Inundated		Ox. rhizospheres		
Depth of Surf. H2O			Sat. in Upper 12"		H2O-stained leaves		
Depth to Free H2O			Water Marks		Local Soil Survey		
Depth to Saturation			Drift Lines		FAC Neutral Test		
			Sediment Deposits		Other		
			Drainage patterns		Criteria Met: Yes		
SOILS			Mapped Series: Brenner silt loam		Hydric Soil?: Yes		
			Classification: Aeric Tropaquepts		Drainage Class: poorly drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-16	5Y 3/1	SD	10YR 4/6	few, medium, distinct			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (95%)		Status	% Cover
				<i>Carex obnupta*</i>		OBL	50
				<i>Eleocharis palustris*</i>		OBL	20
				<i>Potentilla anserina</i>		OBL	10
				<i>Polygonum persicaria</i>		FACW	10
				<i>Equisetum arvense</i>		FAC	5
Shrub Stratum (5%)		Status	% Cover				
<i>Salix hookeriana*</i>		FACW-	100				
Woody Vine Stratum (0%)		Status	% Cover				
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments:							
						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: HC-2-34	
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01	
Investigators: JVS/PF		Township: 37S		Range: 15W Section: 12	
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?	
Is this an Atypical Situation?		No		No	
HYDROLOGY		Primary Indicators		Secondary Indicators	
		Inundated		Ox. rhizospheres Yes	
Depth of Surf. H2O Inches		Sat. in Upper 12" Yes		H2O-stained leaves	
Depth to Free H2O >16 Inches		Water Marks		Local Soil Survey	
Depth to Saturation 0 Inches		Drift Lines		FAC Neutral Test	
		Sediment Deposits		Other _____	
		Drainage patterns Yes		Criteria Met: Yes	
SOILS		Mapped Series: Riverwash		Hydric Soil?: Yes	
		Classification: Fluvents & Fluvaquents		Drainage Class: excessively to poorly drained	
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators
			Color	abundance/size/contrast	Comments
0-4	10YR 3/2	SCL			
4-16	10YR 3/1	SCL			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay					
					Criteria Met: Yes
VEGETATION					
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (60%)	
				<i>Ranunculus repens</i> * FACW 20 <i>Juncus effusus</i> * FACW 20 <i>Alopecurus geniculatus</i> * OBL 20 <i>Eleocharis acicularis</i> OBL 10 <i>Equisetum arvense</i> FAC 5 <i>Oenanthe sarmentosa</i> OBL 5	
Shrub Stratum (40%)		Status	% Cover	<i>Rumex crispus</i> FAC+ 5 <i>Salix hookeriana</i> * FAC 5	
		FACW-	100	Woody Vine Stratum (0%)	
				Status % Cover	
*Percent of dominant species FAC, FACW, or OBL: 100%				Criteria Met: Yes	
Comments:					
					Determination: Wetland



Wetland Determination Data Form Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: HC-2-35		
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01		
Investigators: JVS/PF		Township: 37S		Range: 15W Section: 12		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY		Primary Indicators		Secondary Indicators		
		Inundated		Ox. rhizospheres		
		Sat. in Upper 12"		H2O-stained leaves		
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey		
Depth to Free H2O >14 Inches		Drift Lines		FAC Neutral Test		
Depth to Saturation >14 Inches		Sediment Deposits		Other _____		
		Drainage patterns		Criteria Met: No		
SOILS		Mapped Series: Riverwash		Hydric Soil?: Yes		
		Classification: Fluvents and Fluvaquents		Drainage Class: excessively to poorly drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-14	7.5YR 2/2	SDL				
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: No
VEGETATION						
Tree Stratum (30%)		Status	% Cover	Herbaceous Stratum (50%)		Status % Cover
<i>Picea sitchensis</i> *		FAC	100	<i>Polystichum munitum</i> *		FACU 60
				<i>Iris douglasiana</i> *		NOL 20
				<i>Stachys cooleyae</i>		FACW 10
				<i>Galium aparine</i>		FACU 5
Shrub Stratum (20%)		Status	% Cover			
<i>Rhamnus purshiana</i> *		FAC-	100			
				Woody Vine Stratum (0%)		Status % Cover
*Percent of dominant species FAC, FACW, or OBL: 33%				Criteria Met: No		
Comments:						
						Determination: Upland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: PA-2A-1			
Applicant: City of Gold Beach		County: Curry		Date: 5/22/01			
Investigators: JVS/PF		Township: 36S		Range: 15W Section: 25			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres Yes			
Depth of Surf. H2O		Sat. in Upper 12" Yes		H2O-stained leaves			
Depth to Free H2O >16 Inches		Water Marks		Local Soil Survey			
Depth to Saturation 0 Inches		Drift Lines		FAC Neutral Test			
		Sediment Deposits		Other _____			
		Drainage patterns Yes		Criteria Met: Yes			
SOILS		Mapped Series: Logsdan-Euchre complex		Hydric Soil?: No			
		Classification: Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-10	10YR 2/1	SCL					
10-14	10YR 2/1	SCL	2.5YR 2.5/4	few, medium, distinct			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
Criteria Met:						Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Juncus effusus</i> *		FACW	40
				<i>Lotus corniculatus</i> *		FAC	20
				<i>Ranunculus repens</i> *		FACW	20
				<i>Holcus lanatus</i>		FAC	10
				<i>Mentha pulegium</i>		OBL	5
				<i>Plantago lanceolata</i>		FAC	5
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 100%				Criteria Met:		Yes	
Comments:							
Determination:						Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: PA-2A-2		
Applicant: City of Gold Beach		County: Curry		Date: 5/22/01		
Investigators: JVS/PF		Township: 36S		Range: 15W Section: 25		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY			Primary Indicators		Secondary Indicators	
			Inundated		Ox. rhizospheres	
			Sat. in Upper 12"		H2O-stained leaves	
Depth of Surf. H2O Inches			Water Marks		Local Soil Survey	
Depth to Free H2O >14 Inches			Drift Lines		FAC Neutral Test	
Depth to Saturation >14 Inches			Sediment Deposits		Other	
			Drainage patterns		Criteria Met: No	
SOILS		Mapped Series: Logsdan-Euchre complex		Hydric Soil?: No		
		Classification: Humic Dystrudepts		Drainage Class: well drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-14	10YR 2/1	L				
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: Yes
VEGETATION						
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status % Cover
				<i>Anthoxanthum odoratum</i> *		FACU 50
				<i>Iris douglasiana</i> *		NOL 20
				<i>Hypochaeris radicata</i> *		FACU 20
				<i>Lotus corniculatus</i>		FAC 5
Shrub Stratum (0%)		Status	% Cover			
				Woody Vine Stratum (0%)		Status % Cover
*Percent of dominant species FAC, FACW, or OBL:				0%		Criteria Met: No
Comments:						
						Determination: Upland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: PA-2B-3			
Applicant: City of Gold Beach		County: Curry		Date: 5/22/01			
Investigators: JVS/PF		Township: 36S		Range: 15W Section: 25			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY			Primary Indicators		Secondary Indicators		
			Inundated		Ox. rhizospheres Yes		
			Sat. in Upper 12"		H2O-stained leaves		
Depth of Surf. H2O Inches			Water Marks		Local Soil Survey		
Depth to Free H2O >14 Inches			Drift Lines		FAC Neutral Test		
Depth to Saturation >14 Inches			Sediment Deposits		Other _____		
			Drainage patterns Yes		Criteria Met: Yes		
SOILS		Mapped Series: Logsdon-Euchre compls		Hydric Soil?: No			
		Classification: Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-14	10YR 3/1	SDL	5YR 4/6	few, medium, distinct			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Anthoxanthum odoratum</i>		FACU	10
				<i>Lotus corniculatus*</i>		FAC	25
				<i>Mentha pulegium*</i>		OBL	20
				<i>Juncus effusus*</i>		FACW	20
				<i>Hypochaeris radicata</i>		FACU	5
				<i>Agrostis tenuis</i>		FAC	10
Shrub Stratum (0%)		Status	% Cover	<i>Festuca arundinacea</i>		FAC-	5
				Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments:							
						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-2C-4			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 16			
Do Normal Circumstances exist on this site?		No		Is the area a potential Problem Area?			
Is this an Atypical Situation?		Yes		Yes			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
Depth of Surf. H2O		Sat. in Upper 12" Yes		H2O-stained leaves Yes			
Depth to Free H2O 1 Inches		Water Marks		Local Soil Survey			
Depth to Saturation 0 Inches		Drift Lines		FAC Neutral Test			
		Sediment Deposits		Other			
		Drainage patterns Yes		Criteria Met: Yes			
SOILS		Mapped Series: Urban land		Hydric Soil?: No			
		Classification: #N/A		Drainage Class: #N/A			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-8	10YR 2/2	SL			organics	refused at 8 inches by wood debris	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Eleocharis palustris</i> *		OBL	40
				<i>Agrostis stolonifera var. palustris</i> *		FACW	40
				<i>Typha latifolia</i>		OBL	5
				<i>Phalaris arundinacea</i>		FACW	10
				<i>Juncus effusus</i>		FACW	5
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments: Old mill site							
						Determination: Wetland	



Wetland Determination Data Form Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-2D-5			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 16			
Do Normal Circumstances exist on this site?		No		Is the area a potential Problem Area?			
Is this an Atypical Situation?		Yes		Yes			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >8 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >8 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Urban land		Hydric Soil?: No			
		Classification: #N/A		Drainage Class: #N/A			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-8	10YR 3/3	SL/rocks				refused at 8 inches due to rock, old wood debris	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						Criteria Met: No	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (75%)		Status	% Cover
				<i>Vicia sativa</i> *		UPL	20
				<i>Festuca arundinacea</i> *		FAC-	20
				<i>Parentucellia viscosa</i>		FAC-	10
				<i>Cynosurus echinatus</i>		UPL	10
				<i>Agrostis tenuis</i> *		FAC	20
				<i>Holcus lanatus</i>		FAC	10
Shrub Stratum (5%)		Status	% Cover				
<i>Baccharis pilularis</i> *		UPL	100				
				Woody Vine Stratum (20%)		Status	% Cover
				<i>Rubus discolor</i> *		FACU	100
*Percent of dominant species FAC, FACW, or OBL: 20%						Criteria Met: No	
Comments: Old mill site							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-2D-6		
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01		
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 16		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY		Primary Indicators		Secondary Indicators		
		Inundated		Yes		
		Sat. in Upper 12"		Ox. rhizospheres		
Depth of Surf. H2O 1 Inches		Water Marks		H2O-stained leaves		
Depth to Free H2O Inches		Drift Lines		Local Soil Survey		
Depth to Saturation Inches		Sediment Deposits		FAC Neutral Test		
		Drainage patterns		Other _____		
				Criteria Met: Yes		
SOILS		Mapped Series: Urban land		Hydric Soil?: No		
		Classification: #N/A		Drainage Class: #N/A		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-6	4/GY	S				gravelly, refused at 6 inches due to rock & gravel
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: Yes
VEGETATION						
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status % Cover
				<i>Agrostis stolonifera var. palustris*</i>		FACW 70
				<i>Juncus effusus</i>		FACW 10
				<i>Festuca arundinacea</i>		FAC- 5
				<i>Rumex crispus</i>		FAC+ 10
Shrub Stratum (0%)		Status	% Cover			
				Woody Vine Stratum (0%)		Status % Cover
*Percent of dominant species FAC, FACW, or OBL:				100%		Criteria Met: Yes
Comments:		Old mill site				
						Determination: Wetland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-3-7			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 16			
Do Normal Circumstances exist on this site?		No		Is the area a potential Problem Area?			
Is this an Atypical Situation?		Yes		Yes			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated Sat. in Upper 12" Yes Water Marks Drift Lines Sediment Deposits Drainage patterns Yes		Ox. rhizospheres H2O-stained leaves Local Soil Survey FAC Neutral Test Other _____ Criteria Met: Yes			
Depth of Surf. H2O Inches Depth to Free H2O 6 Inches Depth to Saturation Inches							
SOILS		Mapped Series: Urban land		Hydric Soil?: No			
		Classification: #N/A		Drainage Class: #N/A			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-6	10YR 2/1	S				refused at 6 inches due to rocks & gravel	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Mentha arvensis</i> *		FACW-	35
				<i>Cyperus acuminatus</i> *		OBL	25
				<i>Mentha pulegium</i>		OBL	10
				<i>Festuca arundinacea</i>		FAC-	5
				<i>Rumex crispus</i>		FAC+	5
				<i>Juncus effusus</i>		FACW	10
Shrub Stratum (0%)		Status	% Cover	<i>Juncus bolanderi</i>		OBL	5
				Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL:						100%	Criteria Met: Yes
Comments: Old mill site log decks							
						Determination:	Wetland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-3-8			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 16			
Do Normal Circumstances exist on this site?		No		Is the area a potential Problem Area?			
Is this an Atypical Situation?		Yes		Yes			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O	Inches	Water Marks		Local Soil Survey			
Depth to Free H2O	>3 Inches	Drift Lines		FAC Neutral Test			
Depth to Saturation	>3 Inches	Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Urban land		Hydric Soil?: No			
		Classification: #N/A		Drainage Class: #N/A			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-3	10YR 2/2	SL/rocks				refused at 3 inches due to rocks	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						Criteria Met: No	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (80%)		Status	% Cover
				<i>Holcus lanatus</i> *		FAC	20
				<i>Cynosurus echinatus</i> *		UPL	20
				<i>Plantago lanceolata</i>		FAC	5
				<i>Festuca arundinacea</i>		FAC-	10
				<i>Hypochaeris radicata</i>		FACU	10
				<i>Parentucellia viscosa</i>		FAC-	5
Shrub Stratum (10%)		Status	% Cover	<i>Trifolium wormskioldii</i> *		FACW+	30
<i>Baccharis pilularis</i> *		UPL	100	Woody Vine Stratum (10%)		Status	% Cover
				<i>Rubus discolor</i> *		FACU	100
*Percent of dominant species FAC, FACW, or OBL: 40%				Criteria Met: No			
Comments: Old mill site log decks							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-6A-9		
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01		
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 21		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY		Primary Indicators		Secondary Indicators		
		Inundated		Ox. rhizospheres Yes		
		Sat. in Upper 12"		H2O-stained leaves		
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey		
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test		
Depth to Saturation >16 Inches		Sediment Deposits		Other _____		
		Drainage patterns		Yes		
				Criteria Met: Yes		
SOILS		Mapped Series: Nestucca silt loam		Hydric Soil?: Yes		
		Classification: Fluvaquentic Humaquepts		Drainage Class: somewhat poorly drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-10	10YR 2/1	SL				
10-16	10YR 4/2	SL	5YR 5/6	common, medium, distinct		
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: Yes
VEGETATION						
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (85%)		Status % Cover
				<i>Mentha arvensis</i> *		FACW- 45
				<i>Juncus patens</i>		FACW 15
				<i>Carex feta</i> *		FACW 20
				<i>Ranunculus repens</i>		FACW 5
				<i>Oenanthe sarmentosa</i>		OBL 10
Shrub Stratum (10%)		Status	% Cover	Woody Vine Stratum (5%)		Status % Cover
<i>Fraxinus latifolia</i> *		FACW	100	<i>Rubus ursinus</i> *		FACU 100
*Percent of dominant species FAC, FACW, or OBL: 75%				Criteria Met: Yes		
Comments:						
						Determination: Wetland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-6A-10	
Applicant: City of Gold Beach		County: Curry		Date: 5/9/01	
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 21	
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No			
Is this an Atypical Situation? No					
HYDROLOGY		Primary Indicators		Secondary Indicators	
		Inundated		Ox. rhizospheres	
		Sat. in Upper 12"		H2O-stained leaves	
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey	
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test	
Depth to Saturation >16 Inches		Sediment Deposits		Other _____	
		Drainage patterns		Criteria Met: No	
SOILS		Mapped Series: Nestucca silt loam		Hydric Soil?: Yes	
		Classification: Fluvaquentic Humaquepts		Drainage Class: somewhat poorly drained	
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators
			Color	abundance/size/contrast	Comments
0-16	10YR 3/3	SL			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay					
					Criteria Met: No
VEGETATION					
Tree Stratum (50%)		Status	% Cover	Herbaceous Stratum (10%)	
				Status	% Cover
<i>Umbellularia californica</i> *		FAC-	30	<i>Polystichum munitum</i> *	
<i>Arbutus menziesii</i> *		NOL	20	<i>Claytonia sibirica</i> *	
<i>Acer macrophyllum</i> *		FACU	30	<i>Stachys cooleyae</i> *	
<i>Malus domestica</i> *		NOL	20		
Shrub Stratum (20%)		Status	% Cover	Woody Vine Stratum (20%)	
				Status	% Cover
<i>Berberis nervosa</i> *		UPL	10	<i>Rubus ursinus</i> *	
<i>Abies grandis</i> *		FACU-	40	<i>Rhus diversiloba</i> *	
<i>Corylus cornuta</i> *		FACU	20		
<i>Crataegus monogyna</i>		FACU+	10		
<i>Rhamnus purshiana</i> *		FAC-	20		
*Percent of dominant species FAC, FACW, or OBL: 20%				Criteria Met: No	
Comments:					
					Determination: Upland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-6B-11			
Applicant: City of Gold Beach		County: Curry		Date: 5/9/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 21			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O	Inches	Water Marks		Local Soil Survey			
Depth to Free H2O	>16 Inches	Drift Lines		FAC Neutral Test			
Depth to Saturation	>16 Inches	Sediment Deposits		Other <u> </u> depressional area			
		Drainage patterns		Criteria Met: Yes			
SOILS		Mapped Series: Nestucca silt loam		Hydric Soil?: Yes			
		Classification: Fluvaquentic Humaquepts		Drainage Class: somewhat poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-12	10YR 2/1	SL					
12-16	10YR 3/2	SCL					
	10YR 4/6						
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Mentha pulegium</i>		OBL	50
				<i>Anagallis arvensis</i>		FAC	10
				<i>Rumex crispus</i>		FAC+	10
				<i>Holcus lanatus</i>		FAC	10
				<i>Trifolium repens</i>		FAC	10
				<i>Juncus effusus</i>		FACW	10
Shrub Stratum (5%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments: Small depression approximately 8 feet by 6 feet							
						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-6B-12			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 21			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >16 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Nestucca silt loam		Hydric Soil?: Yes			
		Classification: Fluvaquentic Humaquepts		Drainage Class: somewhat poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-16	10YR 2/2	SL					
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: No	
VEGETATION							
Tree Stratum	(0%)	Status	% Cover	Herbaceous Stratum	(100%)	Status	% Cover
				<i>Festuca arundinacea</i> *		FAC-	50
				<i>Agrostis tenuis</i> *		FAC	20
				<i>Trifolium repens</i>		FAC	10
				<i>Vicia sativa</i>		UPL	5
				<i>Daucus carota</i>		UPL	5
Shrub Stratum	(0%)	Status	% Cover	Woody Vine Stratum	(0%)	Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 50%				Criteria Met: No			
Comments:							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-6B-13			
Applicant: City of Gold Beach		County: Curry		Date: 5/9/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 21			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >14 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >14 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Nestucca silt loam		Hydric Soil?: Yes			
		Classification: Fluvaquentic Humaquepts		Drainage Class: somewhat poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-16	10YR 3/3	SL				gravel	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: No	
VEGETATION							
Tree Stratum	(0%)	Status	% Cover	Herbaceous Stratum	(90%)	Status	% Cover
				<i>Cynosurus echinatus</i>		UPL	15
				<i>Trifolium repens</i> *		FAC	20
				<i>Festuca arundinacea</i>		FAC-	10
				<i>Plantago lanceolata</i>		FAC	10
				<i>Achillea millefolium</i>		FACU	10
				<i>Trifolium dubium</i>		UPL	15
Shrub Stratum	(0%)	Status	% Cover	<i>Chrysanthemum leucanthemum</i>		UPL	10
				Woody Vine Stratum	(10%)	Status	% Cover
				<i>Rubus ursinus</i> *		FACU	100
*Percent of dominant species FAC, FACW, or OBL:				50%		Criteria Met: No	
Comments:							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-6B-14		
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01		
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 21		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY		Primary Indicators		Secondary Indicators		
		Inundated		Ox. rhizospheres		
		Sat. in Upper 12"		H2O-stained leaves		
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey		
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test		
Depth to Saturation >16 Inches		Sediment Deposits		Other _____		
		Drainage patterns		Criteria Met: No		
SOILS		Mapped Series: Nestucca silt loam		Hydric Soil?: Yes		
		Classification: Fluvaquentic Humaquepts		Drainage Class: somewhat poorly drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-16	10YR 3/2	SL				
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: No
VEGETATION						
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status % Cover
				<i>Festuca arundinacea</i> *		FAC- 20
				<i>Ranunculus repens</i> *		FACW 20
				<i>Anthoxanthum odoratum</i> *		FACU 20
				<i>Daucus carota</i>		UPL 10
				<i>Chrysanthemum leucanthemum</i> *		UPL 20
				<i>Plantago lanceolata</i>		FAC 10
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status % Cover
*Percent of dominant species FAC, FACW, or OBL:				25%		Criteria Met: No
Comments:						Determination: Upland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7A-15			
Applicant: City of Gold Beach		County: Curry		Date: 5/9/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres Yes			
		Sat. in Upper 12" Yes		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O 4 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation 0 Inches		Sediment Deposits		Other _____			
		Drainage patterns Yes		Criteria Met: Yes			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluentic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-10	10YR 3/2	SCL					
10-16	5Y 3/1	SL	7.5YR 4/6	common, medium, prominent			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (90%)		Status	% Cover
				<i>Typha latifolia</i> *		OBL	30
				<i>Scirpus microcarpus</i> *		OBL	30
				<i>Potentilla anserina</i> *		OBL	20
				<i>Eleocharis palustris</i>		OBL	15
				<i>Phalaris arundinacea</i>		FACW	5
Shrub Stratum (10%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
<i>Salix hookeriana</i> *		FACW-	50				
<i>Alnus rubra</i> *		FAC	50				
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments:							
						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7A-16			
Applicant: City of Gold Beach		County: Curry		Date: 5/9/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >16 Inches		Sediment Deposits		Other			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-16	10YR 3/2	SD					
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: No	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (80%)		Status	% Cover
				<i>Festuca arundinacea</i> *		FAC-	30
				<i>Equisetum arvense</i> *		FAC	20
				<i>Cirsium arvense</i>		FACU+	10
				<i>Chrysanthemum leucanthemum</i>		UPL	10
				<i>Potentilla anserina</i>		OBL	5
				<i>Bromus carinatus</i> *		UPL	20
Shrub Stratum (20%)		Status	% Cover				
<i>Salix hookeriana</i> *		FACW-	100				
Woody Vine Stratum (0%)		Status	% Cover				
*Percent of dominant species FAC, FACW, or OBL: 50%				Criteria Met: No			
Comments:							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7B-17			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres Yes			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >14 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >14 Inches		Sediment Deposits		Other <u> </u> algal mats			
		Drainage patterns		Criteria Met: Yes			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-4	10YR 3/1	SDL					
4-14	10YR 3/2	SD	10YR 4/6	common, medium, prominent			
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (80%)		Status	% Cover
				<i>Potentilla anserina</i> *		OBL	20
				<i>Juncus lesueurii</i> *		FACW	20
				<i>Carex obnupta</i> *		OBL	20
				<i>Festuca rubra</i> *		FAC+	20
				<i>Equisetum arvense</i>		FAC	10
Shrub Stratum (20%)		Status	% Cover				
<i>Salix hookeriana</i> *		FACW-	100				
Woody Vine Stratum (0%)		Status	% Cover				
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments:							
						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7B-18			
Applicant: City of Gold Beach		County: Curry		Date: 5/9/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		Yes H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation 0 Inches		Sediment Deposits		Other			
		Drainage patterns		Yes			
				Criteria Met: Yes			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators		
			Color	abundance/size/contrast			
0-3	10YR 3/2	S					
3-16	10Y 2.5/1	SDL			gley		
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
					Criteria Met: Yes		
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Juncus lesueurii</i> *		FACW	35
				<i>Potentilla anserina</i>		OBL	5
				<i>Eleocharis palustris</i> *		OBL	30
				<i>Lilaeopsis occidentalis</i> *		OBL	30
Shrub Stratum (0%)		Status	% Cover				
				Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL:				100%		Criteria Met: Yes	
Comments:						Determination: Wetland	



Wetland Determination Data Form Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7B-19		
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01		
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY			Primary Indicators		Secondary Indicators	
			Inundated		Ox. rhizospheres Yes	
			Sat. in Upper 12"		H2O-stained leaves	
Depth of Surf. H2O Inches			Water Marks		Local Soil Survey	
Depth to Free H2O >8 Inches			Drift Lines		FAC Neutral Test	
Depth to Saturation >8 Inches			Sediment Deposits		Other <u> </u> algal mats	
			Drainage patterns		Criteria Met: Yes	
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No		
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-8	10YR 3/1	L				gravelly refused at 8 inches due to rock
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: Yes
VEGETATION						
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status % Cover
				<i>Eleocharis palustris</i> *		OBL 70
				<i>Lilaeopsis occidentalis</i> *		OBL 30
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status % Cover
*Percent of dominant species FAC, FACW, or OBL:				100%		Criteria Met: Yes
Comments:						Determination: Wetland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7C-20			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >7 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >7 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-7	10YR 3/2	SDL				refused at 7 inches due to rock	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: No	
VEGETATION							
Tree Stratum (20%)		Status	% Cover	Herbaceous Stratum (80%)		Status	% Cover
<i>Salix hookeriana</i> *		FACW-	100	<i>Equisetum arvense</i> *		FAC	30
				<i>Festuca arundinacea</i> *		FAC-	20
				<i>Trifolium repens</i> *		FAC	30
				<i>Cirsium arvense</i>		FACU+	10
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 75%				Criteria Met: Yes			
Comments: Mosaic, 80% wetland, 20% upland							
						Determination: Upland	



Wetland Determination Data Form Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7C-21		
Applicant: City of Gold Beach		County: Curry		Date: 5/9/01		
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY		Primary Indicators		Secondary Indicators		
		Inundated		Ox. rhizospheres		
		Sat. in Upper 12"		Yes		
Depth of Surf. H2O		Inches		Water Marks		
Depth to Free H2O		>16		Local Soil Survey		
Depth to Saturation		0		FAC Neutral Test		
		Inches		Other		
		Drainage patterns		Yes		
				Criteria Met: Yes		
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No		
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-16	10YR 3/2	SD/S	10YR 4/6	few, medium, distinct		
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: Yes
VEGETATION						
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (10%)		Status % Cover
				<i>Phalaris arundinacea*</i>		FACW 100
Shrub Stratum (90%)		Status	% Cover			
<i>Salix hookeriana*</i>		FACW-	100	Woody Vine Stratum (0%)		Status % Cover
*Percent of dominant species FAC, FACW, or OBL:				100%		Criteria Met: Yes
Comments:						
						Determination: Wetland



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-7C-22			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 30			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >6 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >6 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-6	10YR 3/3	SDL				refused at 6 inches due to rock	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						Criteria Met: No	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (70%)		Status	% Cover
				<i>Cynosurus echinatus</i> *		UPL	60
				<i>Bromus rigidus</i> *		UPL	20
				<i>Festuca arundinacea</i> *		FAC-	20
Shrub Stratum (30%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
<i>Salix hookeriana</i> *		FACW-	50				
<i>Baccharis pilularis</i> *		UPL	50				
*Percent of dominant species FAC, FACW, or OBL: 20%						Criteria Met: No	
Comments:							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-8-23			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 31			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres Yes			
		Sat. in Upper 12" Yes		H2O-stained leaves			
Depth of Surf. H2O 6 Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >16 Inches		Drift Lines Yes		FAC Neutral Test			
		Sediment Deposits		Other Tidal			
		Drainage patterns Yes		Criteria Met: Yes			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-2	7.5YR 5/8	SD					
2-16	2.5/5 PB	SD	7.5YR 4/6			black sand	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
Criteria Met:						Yes	
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Carex obnupta</i> *		OBL	35
				<i>Juncus lesueurii</i>		FACW	30
				<i>Potentilla anserina</i> *		OBL	20
				<i>Lilaeopsis occidentalis</i>		OBL	15
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 100%				Criteria Met:		Yes	
Comments:							
Determination:						Wetland	



Wetland Determination Data Form Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-8-24			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 14W Section: 31			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >14 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >14 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-14	10YR 2/2	SDL				gravelly	
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: No	
VEGETATION							
Tree Stratum (10%)		Status	% Cover	Herbaceous Stratum (50%)		Status	% Cover
<i>Myrica californica</i> *		FACW	100	<i>Festuca arundinacea</i> *		FAC-	70
				<i>Equisetum arvense</i> *		FAC	20
				<i>Polystichum munitum</i>		FACU	10
Shrub Stratum (25%)		Status	% Cover	Woody Vine Stratum (15%)		Status	% Cover
<i>Lonicera involucrata</i> *		FAC+	35	<i>Rubus ursinus</i> *		FACU	100
<i>Alnus rubra</i> *		FAC	30				
<i>Rubus parviflorus</i> *		FAC-	30				
<i>Disporum hookeri</i>		UPL	2				
*Percent of dominant species FAC, FACW, or OBL: 57%						Criteria Met: Yes	
Comments:							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-10-25			
Applicant: City of Gold Beach		County: Curry		Date: 5/22/01			
Investigators: JVS/PF		Township: 36S		Range: 15W Section: 36			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
Depth of Surf. H2O Inches		Sat. in Upper 12" Yes		H2O-stained leaves			
Depth to Free H2O 4 Inches		Water Marks		Local Soil Survey			
Depth to Saturation 0 Inches		Drift Lines Yes		FAC Neutral Test			
		Sediment Deposits		Other _____			
		Drainage patterns Yes		Criteria Met: Yes			
SOILS		Mapped Series: Yachats very fine sandy loam		Hydric Soil?: No			
		Classification: Fluventic Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-16	10YR 2/1	SDL					
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
Criteria Met: Yes							
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (100%)		Status	% Cover
				<i>Deschampsia cespitosa</i> *		FACW	30
				<i>Scirpus americanus</i> *		OBL	50
				<i>Eleocharis palustris</i> *		OBL	20
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments:						Determination: Wetland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-10-26			
Applicant: City of Gold Beach		County: Curry		Date: 5/22/01			
Investigators: JVS/PF		Township: 36S		Range: 15W Section: 36			
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?			
Is this an Atypical Situation?		No		No			
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres			
		Sat. in Upper 12"		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >16 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation >16 Inches		Sediment Deposits		Other _____			
		Drainage patterns		Criteria Met: No			
SOILS		Mapped Series: Ferrelo-Gearhart complex		Hydric Soil?: No			
		Classification: Humic Dystrudepts		Drainage Class: well drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-16	5Y 4/1	SD					
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
						Criteria Met: Yes	
VEGETATION							
Tree Stratum	(0%)	Status	% Cover	Herbaceous Stratum	(100%)	Status	% Cover
				<i>Festuca arundinacea</i> *		FAC-	30
				<i>Ammophila arenaria</i> *		FACU	35
				<i>Rumex crispus</i>		FAC+	5
				<i>Deschampsia cespitosa</i> *		FACW	20
				<i>Plantago lanceolata</i>		FAC	5
Shrub Stratum	(0%)	Status	% Cover	Woody Vine Stratum	(0%)	Status	% Cover
*Percent of dominant species FAC, FACW, or OBL:				33%		Criteria Met: No	
Comments:							
						Determination: Upland	



Wetland Determination Data Form

Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-11-27		
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01		
Investigators: JVS/PF		Township: 36S		Range: 15W Section: 36		
Do Normal Circumstances exist on this site?		Yes		Is the area a potential Problem Area?		
Is this an Atypical Situation?		No		No		
HYDROLOGY			Primary Indicators		Secondary Indicators	
			Inundated		Ox. rhizospheres	
			Sat. in Upper 12"		H2O-stained leaves	
Depth of Surf. H2O Inches			Water Marks		Local Soil Survey	
Depth to Free H2O >14 Inches			Drift Lines		FAC Neutral Test	
Depth to Saturation >14 Inches			Sediment Deposits		Other _____	
			Drainage patterns		Criteria Met: No	
SOILS		Mapped Series: Hebo silty clay loam		Hydric Soil?: Yes		
		Classification: Typic Tropaquepts		Drainage Class: poorly drained		
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments
			Color	abundance/size/contrast		
0-14	10YR 3/3	SL				duff, cobbles
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay						
						Criteria Met: No
VEGETATION						
Tree Stratum (40%)		Status	% Cover	Herbaceous Stratum (20%)		Status % Cover
<i>Pinus contorta*</i>		FAC	100	<i>Bromus carinatus*</i>		UPL 80
				<i>Equisetum arvense</i>		FAC 10
				<i>Polystichum munitum</i>		FACU 5
				<i>Crococsmia</i>		NOL 5
Shrub Stratum (0%)		Status	% Cover	Woody Vine Stratum (40%)		Status % Cover
				<i>Hedera helix*</i>		UPL 50
				<i>Rubus discolor*</i>		FACU 50
*Percent of dominant species FAC, FACW, or OBL: 25%				Criteria Met: No		
Comments:						
						Determination: Upland



Wetland Determination Data Form Routine Onsite Method

Pacific Habitat Services, Inc.

Project: Gold Beach LWI		Number: 2316		Sample Site: RO-11-28			
Applicant: City of Gold Beach		County: Curry		Date: 5/7/01			
Investigators: JVS/PF		Township: 36S		Range: 15W Section: 36			
Do Normal Circumstances exist on this site? Yes		Is the area a potential Problem Area? No					
Is this an Atypical Situation? No							
HYDROLOGY		Primary Indicators		Secondary Indicators			
		Inundated		Ox. rhizospheres Yes			
		Sat. in Upper 12" Yes		H2O-stained leaves			
Depth of Surf. H2O Inches		Water Marks		Local Soil Survey			
Depth to Free H2O >14 Inches		Drift Lines		FAC Neutral Test			
Depth to Saturation 6 Inches		Sediment Deposits		Other			
		Drainage patterns Yes		Criteria Met: Yes			
SOILS		Mapped Series: Hebo silty clay loam		Hydric Soil?: Yes			
		Classification: Typic Tropaquepts		Drainage Class: poorly drained			
Depth (Inches)	Matrix Color	Soil Texture*	Redox Concentrations		Other Hydric Soil Field Indicators	Comments	
			Color	abundance/size/contrast			
0-14	10YR 3/1	SCL					
*SD=Sand, SDL=Sandy Loam, L=Loam, SDCL=Sandy Clay Loam, S=Silt, SL=Silt Loam, SCL=Silty Clay Loam, CL=Clay Loam, C=Clay							
Criteria Met: Yes							
VEGETATION							
Tree Stratum (0%)		Status	% Cover	Herbaceous Stratum (25%)		Status	% Cover
				<i>Lysichiton americanum*</i>		OBL	60
				<i>Equisetum arvense</i>		FAC	10
				<i>Ranunculus repens*</i>		FACW	20
				<i>Urtica dioica</i>		FAC+	10
Shrub Stratum (75%)		Status	% Cover	Woody Vine Stratum (0%)		Status	% Cover
<i>Rosa eglanteria</i>		FACW	5				
<i>Salix hookerana*</i>		FACW-	90				
<i>Alnus rubra</i>		FAC	5				
*Percent of dominant species FAC, FACW, or OBL: 100%						Criteria Met: Yes	
Comments: Dean Creek drainage							
Determination: Wetland							

Appendix C

OFWAM Data and Summary Sheets



Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	HC-1
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	8/8/01	Approx. Area (acres):	5.15
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	East of Hwy. 101, south of Hunter Creek Road at mouth of Hunter Creek		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	C	Q-1	A	Q-1	B
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	B	Q-3		Q-3	A	Q-3	A	Q-3	C
Q-4	C	Q-4		Q-4	A	Q-4	C	Q-4	B
Q-5	A	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	A	Q-6		Q-6	C	Q-6	C	Q-6	C
Q-7	A					Q-7	A		
Q-8	B								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control function is intact
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	B
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	A
Q-4	A	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	HC-1
Location:	Curry County	Approx. Area (acres):	5.15
Date:	8/8/01	Wetland Types(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Wetland is more than 5 acres in size	
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is intact		
Rationale:	Wetland is within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Development upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land use is primarily agriculture	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is greater than 5 acres	
	Primary water source is groundwater	Wetland buffer is greater than 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	Two Cowardin classes visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	HC-2
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	8/8/01	Approx. Area (acres):	0.06
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	East of Hwy. 101, south of Hunter Creek Road at mouth of Hunter Creek		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	C	Q-1	A	Q-1	B
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	B
Q-5	B	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	C	Q-6	C
Q-7	A					Q-7	A		
Q-8	B								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control function is lost or not present
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	A
Q-4	C	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	HC-2
Location:	Curry County	Approx. Area (acres):	0.06
Date:	8/8/01	Wetland Type(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Isolated from other wetlands	
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is lost or not present		
Rationale:	Wetland is within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Development upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land use is primarily agriculture	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	One or more functions lost/not present	Wetland is less than 0.5 acres	
	Primary water source is groundwater	Wetland buffer is greater than 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	HC-3
Project Location:	Curry County	Wetland Type(s):	PEM, PSS
Date(s) of field work:	5/8/01	Approx. Area (acres):	2.96
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Turtle Rock RV Park, south of Hunter Creek, east of Hwy. 101		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1		Q-1	C	Q-1	A	Q-1	A
Q-2	A	Q-2		Q-2	A	Q-2	A	Q-2	A
Q-3	B	Q-3		Q-3	A	Q-3	B	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	A	Q-4	A
Q-5	B	Q-5		Q-5	A	Q-5	A	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	C	Q-6	A
Q-7	A					Q-7	A		
Q-8	C								
Q-9A									
Q-9B	C								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control function is intact
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	B
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	B	Q-4	A	Q-4	B	Q-4	B
Q-5B	C	Q-5	C	Q-5	A	Q-5	A
Q-6	B	Q-6	A	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be moderately pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	HC-3
Location:	Curry County	Approx. Area (acres):	2.96
Date:	5/8/01	Wetland Types(s):	PEM, PSS
Result:	Wetland provides habitat for some wildlife species		
Rationale:	More than one Cowardin class	No adjacent Water Quality limited streams	
	Dominated by woody vegetation	Adjacent land is mostly developed	
	Less than 0.5 acres of open water	Wetland buffer is less than 10%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is mostly developed	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is intact		
Rationale:	Wetland is within 100 year floodplain	Dominated by woody vegetation	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Flow out of wetland is restricted	Development upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed	
	Water is taken out or isolated wetland	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Dominated by woody vegetation	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is groundwater	Wetland buffer is less than 10%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland has potential for educational use		
Rationale:	Wetland access by landowner permission	No access point to wetland exists	
	No visible hazards to public	Wetland is limited mobility accessible	
	Public access to other habitats exist		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	Fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be moderately pleasing		
Rationale:	Two Cowardin classes visible	Wetland surrounded by landscaped areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	Visual detractors present, can't be removed	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	HC-4
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/22/01	Approx. Area (acres):	0.13
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Mateer Road, east of Hunter Creek		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	C	Q-1	B	Q-1	B
Q-2	C	Q-2		Q-2	B	Q-2	B	Q-2	B
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	B
Q-5	B	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	B	Q-6	C
Q-7	A					Q-7	A		
Q-8	B								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	C	Q-4	C	Q-4	B	Q-4	B
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	HC-4
Location:	Curry County	Approx. Area (acres):	0.13	
Date:	5/22/01	Wetland Types(s):	PEM	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams		
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture		
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is groundwater	Isolated from other wetlands		
	Can't determine if wetland floods or ponds	Adjacent land use is primarily agriculture		
	High wetland vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding		
	Can't determine if wetland floods or ponds	Agriculture downslope of wetland		
	Water has unrestricted flow out of wetland	Development upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream not modified	Adjacent land use is primarily agriculture		
	Water not taken out	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding		
Result:	Wetland has high enhancement potential			
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres		
	Primary water source is groundwater	Wetland buffer is greater than 40%		
	Water flow is permanently restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	No access allowed to wetland	No access point to wetland exists		
	No visible hazards to public	Wetland is not limited mobility accessible		
	No access or observation of other habitats			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	No trails or viewing areas exist	No hunting is allowed		
Result:	Wetland is considered to be pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by landscaped areas		
	>50% of wetland can be seen	Natural odors present at wetland		
	No visual detractors are present	Some traffic and natural noises are present		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	HC-5
Project Location:	Curry County	Wetland Type(s):	PSS
Date(s) of field work:	5/22/01	Approx. Area (acres):	1.72
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Hunter Creek Loop, west of Hunter Creek		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	C	Q-1	A	Q-1	A
Q-2	A	Q-2		Q-2	B	Q-2	B	Q-2	B
Q-3	C	Q-3		Q-3	A	Q-3	B	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	C	Q-4	A
Q-5	A	Q-5		Q-5	A	Q-5	A	Q-5	A
Q-6	A	Q-6		Q-6	C	Q-6	A	Q-6	A
Q-7	A					Q-7	A		
Q-8	C								
Q-9A									
Q-9B	C								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control function is intact
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	C
Q-4	B	Q-4	B	Q-4	B	Q-4	C
Q-5B	C	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	HC-5
Location:	Curry County	Approx. Area (acres):	1.72
Date:	5/22/01	Wetland Types(s):	PSS
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams	
	Dominated by woody vegetation	Adjacent land is mostly developed	
	Less than 0.5 acres of open water	Wetland buffer is less than 10%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Surface water connection to other wetlands	
	Can't determine if wetland floods or ponds	Adjacent land is mostly developed	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is intact		
Rationale:	Wetland is within 100 year floodplain	Dominated by woody vegetation	
	Can't determine if wetland floods or ponds	Development downslope of wetland	
	Water has unrestricted flow out of wetland	Development upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Dominated by woody vegetation	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is groundwater	Wetland buffer is less than 10%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
Result:	Wetland is not aesthetically pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by development	
	>50% of wetland can be seen	Natural odors present at wetland	
	Visual detractors present, can't be removed	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	PA-1
Project Location:	Curry County	Wetland Type(s):	PSS
Date(s) of field work:	5/22/01	Approx. Area (acres):	0.29
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Wedderburn, west of Hwy. 101, north of Knox Lane		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	B	Q-1	A	Q-1	A	Q-1	A
Q-2	A	Q-2	B	Q-2	B	Q-2	B	Q-2	B
Q-3	C	Q-3	B	Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4	A	Q-4	B	Q-4	C	Q-4	C
Q-5	A	Q-5	A	Q-5	C	Q-5	A	Q-5	C
Q-6	A	Q-6	B	Q-6	C	Q-6	C	Q-6	A
Q-7	A					Q-7	A		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	A	Q-1	B	Q-1	C
Q-2	A	Q-2	B	Q-2	C	Q-2	B
Q-3	A	Q-3	B	Q-3	B	Q-3	A
Q-4	C	Q-4	A	Q-4	B	Q-4	A
Q-5B	A	Q-5	B	Q-5	A	Q-5	A
Q-6	B	Q-6	A	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be moderately pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	PA-1
Location:	Curry County	Approx. Area (acres):	0.29
Date:	5/22/01	Wetland Types(s):	PSS
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Dominated by woody vegetation	Adjacent land is primarily open space	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Wetland's fish habitat function is impacted or degraded		
Rationale:	25-50% of stream is shaded	No adjacent Water Quality Limited streams	
	Only portions of stream are modified	Adjacent land is primarily open space	
	10-25% of stream has instream structures	Warmwater fish present in stream	
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Can't determine if wetland floods or ponds	Adjacent land is primarily open space	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is within 100 year floodplain	Dominated by woody vegetation	
	Can't determine if wetland floods or ponds	Open space downslope of development	
	Water has unrestricted flow out of wetland	Development upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is primarily open space	
	Water not taken out	Adjacent zoning is mostly open space	
	No adjacent Water Quality Limited streams	Dominated by woody vegetation	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres	
	Primary water source is surface flow	Wetland buffer is greater than 40%	
	Flow into wetland is not restricted	Potentially sensitive to future impacts	
Result:	Wetland has potential for educational use		
Rationale:	Wetland is open to the public	Unmaintained public access within 250 feet	
	1 or 2 visible safety hazards	Wetland is limited mobility accessible	
	Public access to other habitats exist		
Result:	Wetland has the potential to provide recreational activities		
Rationale:	Unmaintained public access within 250 feet	Wetland provides habitat for some wildlife	
	No boat launching can be developed	Fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be moderately pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	25 - 50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	PA-2A
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/22/01	Approx. Area (acres):	0.35
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Wedderburn, west of Hwy. 101, south of Knox Lane		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	A	Q-1	B	Q-1	A
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	B	Q-4	B
Q-5	A	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	A	Q-6		Q-6	C	Q-6	B	Q-6	C
Q-7	A					Q-7	B		
Q-8	B								
Q-9A									
Q-9B	C								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is intact
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	A	Q-2	A	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	B	Q-3	B
Q-4	C	Q-4	B	Q-4	B	Q-4	B
Q-5B	C	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	A	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	PA-2A
Location:	Curry County	Approx. Area (acres):	0.35	
Date:	5/22/01	Wetland Type(s):	PEM	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams		
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture		
	Less than 0.5 acres of open water	Wetland buffer is less than 10%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is intact			
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands		
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture		
	High wetland vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding		
	Wetland floods/ponds in growing season	Agriculture downslope of wetland		
	Minor restrictions slow down the water	Agriculture upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream modified or isolated wetland	Adjacent land use is primarily agriculture		
	Water not taken out	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding		
Result:	Wetland has moderate potential for enhancement			
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres		
	Primary water source is surface flow	Wetland buffer is less than 10%		
	Flow into wetland is not restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	No access allowed to wetland	No access point to wetland exists		
	No visible hazards to public	Wetland is limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	Unmaintained trails, viewing areas exist	No hunting is allowed		
Result:	Wetland is considered to be pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by landscaped areas		
	>50% of wetland can be seen	Unpleasant odors are present sometimes		
	Visual detractors present, can be removed	Continuous traffic and natural noises occur		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	PA-2B
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/22/01	Approx. Area (acres):	0.08
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Wedderburn, west of Hwy. 101, south of Knox Lane		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	C	Q-1	B	Q-1	A
Q-2	C	Q-2		Q-2	C	Q-2	C	Q-2	A
Q-3	C	Q-3		Q-3	B	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	B
Q-5	B	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	B	Q-6	C
Q-7	A					Q-7	B		
Q-8	B								
Q-9A									
Q-9B	C								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is lost or not present
Hydrologic Control	Wetland's hydrologic control function is lost or not present
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	B
Q-4	C	Q-4	B	Q-4	B	Q-4	B
Q-5B	C	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	B	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	PA-2B
Location:	Curry County	Approx. Area (acres):	0.08
Date:	5/22/01	Wetland Type(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is less than 10%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is lost or not present		
Rationale:	Primary water source is groundwater	Isolated from other wetlands	
	Wetland does not flood or pond	Adjacent land use is primarily agriculture	
	Moderate vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is lost or not present		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland does not flood or pond	Agriculture downslope of wetland	
	Water has unrestricted flow out of wetland	Agriculture upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land use is primarily agriculture	
	Water is taken out or isolated wetland	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres	
	Primary water source is groundwater	Wetland buffer is less than 10%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by landscaped areas	
	>50% of wetland can be seen	Unpleasant odors are present sometimes	
	Visual detractors present, can be removed	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	PA-2C
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/22/01	Approx. Area (acres):	0.22
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Wedderburn, west of Hwy. 101, south of Knox Lane		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	A	Q-1	B	Q-1	A
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	B	Q-4	B
Q-5	A	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	A	Q-6		Q-6	C	Q-6	B	Q-6	C
Q-7	A					Q-7	B		
Q-8	B								
Q-9A									
Q-9B	C								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is intact
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	A	Q-2	A	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	B	Q-3	B
Q-4	C	Q-4	B	Q-4	B	Q-4	B
Q-5B	C	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	A	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	PA-2C
Location:	Curry County	Approx. Area (acres):	0.22
Date:	5/22/01	Wetland Types(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is less than 10%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is intact		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland floods/ponds in growing season	Agriculture downslope of wetland	
	Minor restrictions slow down the water	Agriculture upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land use is primarily agriculture	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres	
	Primary water source is surface flow	Wetland buffer is less than 10%	
	Flow into wetland is not restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by landscaped areas	
	>50% of wetland can be seen	Unpleasant odors are present sometimes	
	Visual detractors present, can be removed	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	PA-3
Project Location:	Curry County	Wetland Type(s):	PEM, PSS
Date(s) of field work:	5/22/01	Approx. Area (acres):	0.86
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Wedderburn, west of Hwy. 101, north of sewage treatment ponds		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	C	Q-1	A	Q-1	A
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	A
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	C
Q-5	B	Q-5		Q-5	C	Q-5	C	Q-5	C
Q-6	B	Q-6		Q-6	C	Q-6	C	Q-6	C
Q-7	A					Q-7	B		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is lost or not present
Hydrologic Control	Wetland's hydrologic control function is lost or not present
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	A	Q-1	B	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	A
Q-4	C	Q-4	A	Q-4	B	Q-4	A
Q-5B	A	Q-5	B	Q-5	B	Q-5	A
Q-6	B	Q-6	A	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland has educational uses
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	PA-3
Location:	Curry County	Approx. Area (acres):	0.86
Date:	5/22/01	Wetland Types(s):	PEM, PSS
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land is primarily open space	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is lost or not present		
Rationale:	Primary water source is groundwater	Isolated from other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is primarily open space	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is lost or not present		
Rationale:	Wetland is within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Agriculture upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is primarily open space	
	Water is taken out or isolated wetland	Adjacent zoning is mostly open space	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	One or more functions lost/not present	Wetland is less than 0.5 acres	
	Primary water source is groundwater	Wetland buffer is greater than 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland has educational uses		
Rationale:	Wetland is open to the public	Unmaintained public access within 250 feet	
	No visible hazards to public	Wetland is limited mobility accessible	
	Public access to other habitats exist		
Result:	Wetland has the potential to provide recreational activities		
Rationale:	Unmaintained public access within 250 feet	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	PA-4
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/22/01	Approx. Area (acres):	0.11
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	South end, west of Hwy. 101, north of Hunter Creek		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	A	Q-1	A	Q-1	A
Q-2	C	Q-2		Q-2	B	Q-2	B	Q-2	B
Q-3	C	Q-3		Q-3	C	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	A	Q-4	C
Q-5	A	Q-5		Q-5	C	Q-5	C	Q-5	C
Q-6	A	Q-6		Q-6	C	Q-6	C	Q-6	C
Q-7	A					Q-7	B		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A	Q-1	C
Q-2	A	Q-2	A	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	B	Q-3	C
Q-4	C	Q-4	A	Q-4	B	Q-4	A
Q-5B	A	Q-5	A	Q-5	B	Q-5	A
Q-6	B	Q-6	A	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	PA-4
Location:	Curry County	Approx. Area (acres):	0.11
Date:	5/22/01	Wetland Types(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land is primarily open space	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Can't determine if wetland floods or ponds	Adjacent land is primarily open space	
	Low vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is within 100 year floodplain	Herbaceous vegetation, no ponding	
	Can't determine if wetland floods or ponds	Open space downslope of development	
	Flow out of wetland is restricted	Agriculture upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is primarily open space	
	Water not taken out	Adjacent zoning is mostly open space	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres	
	Primary water source is surface flow	Wetland buffer is greater than 40%	
	Flow into wetland is not restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	Maintained public access within 250 feet	
	No visible hazards to public	Wetland is limited mobility accessible	
	Public access to other habitats exist		
Result:	Wetland has the potential to provide recreational activities		
Rationale:	Maintained public access within 250 feet	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is not aesthetically pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	Visual detractors present, can't be removed	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-1
Project Location:	Curry County	Wetland Type(s):	PSS, PEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	0.32
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	North Bank Rogue River Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1		Q-1	C	Q-1	B	Q-1	B
Q-2	B	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	B	Q-3		Q-3	A	Q-3	B	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	B	Q-4	B
Q-5	A	Q-5		Q-5	B	Q-5	B	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	C	Q-6	B
Q-7	A					Q-7	B		
Q-8	B								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	B
Q-2	B	Q-2	B	Q-2	C	Q-2	B
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	B	Q-4	B	Q-4	B	Q-4	B
Q-5B	B	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be moderately pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-1
Location:	Curry County	Approx. Area (acres):	0.32
Date:	5/8/01	Wetland Types(s):	PSS, PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	More than one Cowardin class	No adjacent Water Quality limited streams	
	Herbaceous vegetation & ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is between 10% and 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation & ponding	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Minor restrictions slow down the water	Agriculture upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land use is primarily agriculture	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation & ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is groundwater	Wetland buffer is between 10% and 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	1 or 2 visible safety hazards	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be moderately pleasing		
Rationale:	Two Cowardin classes visible	Wetland surrounded by landscaped areas	
	25 - 50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-2A
Project Location:	Curry County	Wetland Type(s):	PUBx
Date(s) of field work:	5/8/01	Approx. Area (acres):	3.10
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Mill site, Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1	B	Q-1	C	Q-1	B	Q-1	A
Q-2	B	Q-2	C	Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3	C	Q-3	C	Q-3	B	Q-3	C
Q-4	A	Q-4	A	Q-4	B	Q-4	C	Q-4	A
Q-5	A	Q-5	C	Q-5	A	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	C	Q-6	A	Q-6	B
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	B	Q-4	B	Q-4	B	Q-4	C
Q-5B	B	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-2A
Location:	Curry County	Approx. Area (acres):	3.10
Date:	5/8/01	Wetland Types(s):	PUBx
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation & ponding	Adjacent land is mostly developed	
	Greater than 1 acre of open water	Wetland buffer is between 10% and 40%	
Result:	Wetland's fish habitat function is impacted or degraded		
Rationale:	25-50% of stream is shaded	No adjacent Water Quality Limited streams	
	Stream banks are extensively modified	Adjacent land is mostly developed	
	<10% of stream has instream structures	Warmwater fish present in stream	
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is mostly developed	
	Low vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation & ponding	
	Wetland floods/ponds in growing season	Development downslope of wetland	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation & ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is groundwater	Wetland buffer is between 10% and 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	Wetland access by landowner permission	No access point to wetland exists	
	More than 2 visible safety hazards	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is not aesthetically pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by development	
	>50% of wetland can be seen	Unpleasant odors are present sometimes	
	Visual detractors present, can't be removed	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-2B
Project Location:	Curry County	Wetland Type(s):	PUBx, PEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	12.19
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Mill site, Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	B	Q-1	A
Q-2	B	Q-2	C	Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3	C	Q-3	C	Q-3	A	Q-3	C
Q-4	A	Q-4	A	Q-4	A	Q-4	C	Q-4	A
Q-5	A	Q-5	C	Q-5	A	Q-5	B	Q-5	A
Q-6	A	Q-6	B	Q-6	C	Q-6	A	Q-6	B
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	A	Q-4	B	Q-4	B	Q-4	C
Q-5B	B	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-2B
Location:	Curry County	Approx. Area (acres):	12.19
Date:	5/8/01	Wetland Types(s):	PUBx, PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	More than one Cowardin class	No adjacent Water Quality limited streams	
	Herbaceous vegetation & ponding	Adjacent land is mostly developed	
	Greater than 1 acre of open water	Wetland buffer is between 10% and 40%	
Result:	Wetland's fish habitat function is impacted or degraded		
Rationale:	25-50% of stream is shaded	No adjacent Water Quality Limited streams	
	Stream banks are extensively modified	Adjacent land is mostly developed	
	<10% of stream has instream structures	Warmwater fish present in stream	
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Wetland is more than 5 acres in size	
	Wetland floods/ponds in growing season	Adjacent land is mostly developed	
	Low vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation & ponding	
	Wetland floods/ponds in growing season	Development downslope of wetland	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation & ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is greater than 5 acres	
	Primary water source is groundwater	Wetland buffer is between 10% and 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	Wetland access by landowner permission	No access point to wetland exists	
	More than 2 visible safety hazards	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is not aesthetically pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by development	
	>50% of wetland can be seen	Unpleasant odors are present sometimes	
	Visual detractors present, can't be removed	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-2C
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	1.62
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Mill site, Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	C	Q-1	B	Q-1	A
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	C	Q-4	A
Q-5	A	Q-5		Q-5	A	Q-5	C	Q-5	A
Q-6	A	Q-6		Q-6	C	Q-6	A	Q-6	C
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	B	Q-4	B	Q-4	B	Q-4	C
Q-5B	B	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-2C
Location:	Curry County	Approx. Area (acres):	1.62	
Date:	5/8/01	Wetland Type(s):	PEM	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams		
	Herbaceous vegetation, no ponding	Adjacent land is mostly developed		
	Less than 0.5 acres of open water	Wetland buffer is between 10% and 40%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is groundwater	Surface water connection to other wetlands		
	Wetland floods/ponds in growing season	Adjacent land is mostly developed		
	Moderate vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding		
	Wetland floods/ponds in growing season	Development downslope of wetland		
	Water has unrestricted flow out of wetland	Open space upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed		
	Water not taken out	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding		
Result:	Wetland has high enhancement potential			
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres		
	Primary water source is groundwater	Wetland buffer is between 10% and 40%		
	Water flow is permanently restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	Wetland access by landowner permission	No access point to wetland exists		
	More than 2 visible safety hazards	Wetland is not limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	Unmaintained trails, viewing areas exist	No hunting is allowed		
Result:	Wetland is not aesthetically pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by development		
	>50% of wetland can be seen	Unpleasant odors are present sometimes		
	Visual detractors present, can't be removed	Some traffic and natural noises are present		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-2D
Project Location:	Curry County	Wetland Type(s):	PUBx, PEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	1.15
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Mill site, Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	A	Q-1	B	Q-1	A
Q-2	B	Q-2	C	Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3	C	Q-3	B	Q-3	B	Q-3	C
Q-4	B	Q-4	A	Q-4	B	Q-4	C	Q-4	A
Q-5	A	Q-5	C	Q-5	A	Q-5	B	Q-5	A
Q-6	A	Q-6	B	Q-6	C	Q-6	C	Q-6	B
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	B
Q-2	A	Q-2	C	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	B	Q-3	C
Q-4	B	Q-4	B	Q-4	B	Q-4	C
Q-5B	A	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-2D
Location:	Curry County	Approx. Area (acres):	1.15
Date:	5/8/01	Wetland Types(s):	PUBx, PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	More than one Cowardin class	No adjacent Water Quality limited streams	
	Herbaceous vegetation & ponding	Adjacent land is mostly developed	
	Between 0.5 - 1 acre of open water	Wetland buffer is greater than 40%	
Result:	Wetland's fish habitat function is impacted or degraded		
Rationale:	Less than 25% of stream is shaded	No adjacent Water Quality Limited streams	
	Stream banks are extensively modified	Adjacent land is mostly developed	
	<10% of stream has instream structures	Warmwater fish present in stream	
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is mostly developed	
	Moderate vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation & ponding	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation & ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is surface flow	Wetland buffer is greater than 40%	
	Flow into wetland is not restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	More than 2 visible safety hazards	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is not aesthetically pleasing		
Rationale:	Two Cowardin classes visible	Wetland surrounded by development	
	>50% of wetland can be seen	Unpleasant odors are present sometimes	
	Visual detractors present, can't be removed	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-2E
Project Location:	Curry County	Wetland Type(s):	PSS
Date(s) of field work:	5/8/01	Approx. Area (acres):	0.18
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Mill site, Jerry Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	C	Q-1	B	Q-1	A
Q-2	A	Q-2		Q-2	A	Q-2	A	Q-2	A
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	A
Q-5	B	Q-5		Q-5	A	Q-5	A	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	A	Q-6	A
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	C	Q-4	B	Q-4	B	Q-4	C
Q-5B	B	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-2E
Location:	Curry County	Approx. Area (acres):	0.18	
Date:	5/8/01	Wetland Type(s):	PSS	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams		
	Dominated by woody vegetation	Adjacent land is mostly developed		
	Less than 0.5 acres of open water	Wetland buffer is between 10% and 40%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is groundwater	Isolated from other wetlands		
	Wetland floods/ponds in growing season	Adjacent land is mostly developed		
	High wetland vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is not within 100 year floodplain	Dominated by woody vegetation		
	Wetland floods/ponds in growing season	Development downslope of wetland		
	Water has unrestricted flow out of wetland	Open space upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed		
	Water is taken out or isolated wetland	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Dominated by woody vegetation		
Result:	Wetland has high enhancement potential			
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres		
	Primary water source is groundwater	Wetland buffer is between 10% and 40%		
	Water flow is permanently restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	Wetland access by landowner permission	No access point to wetland exists		
	More than 2 visible safety hazards	Wetland is not limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	Unmaintained trails, viewing areas exist	No hunting is allowed		
Result:	Wetland is not aesthetically pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by development		
	>50% of wetland can be seen	Unpleasant odors are present sometimes		
	Visual detractors present, can't be removed	Some traffic and natural noises are present		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-2F
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	0.08
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Mill site, Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	C	Q-1	B	Q-1	A
Q-2	A	Q-2		Q-2	A	Q-2	A	Q-2	A
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	A
Q-5	B	Q-5		Q-5	A	Q-5	A	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	A	Q-6	A
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	C
Q-2	B	Q-2	C	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	C	Q-4	B	Q-4	B	Q-4	C
Q-5B	B	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-2F
Location:	Curry County	Approx. Area (acres):	0.08	
Date:	5/8/01	Wetland Type(s):	PEM	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams		
	Dominated by woody vegetation	Adjacent land is mostly developed		
	Less than 0.5 acres of open water	Wetland buffer is between 10% and 40%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is groundwater	Isolated from other wetlands		
	Wetland floods/ponds in growing season	Adjacent land is mostly developed		
	High wetland vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is not within 100 year floodplain	Dominated by woody vegetation		
	Wetland floods/ponds in growing season	Development downslope of wetland		
	Water has unrestricted flow out of wetland	Open space upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed		
	Water is taken out or isolated wetland	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Dominated by woody vegetation		
Result:	Wetland has high enhancement potential			
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres		
	Primary water source is groundwater	Wetland buffer is between 10% and 40%		
	Water flow is permanently restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	Wetland access by landowner permission	No access point to wetland exists		
	More than 2 visible safety hazards	Wetland is not limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	Unmaintained trails, viewing areas exist	No hunting is allowed		
Result:	Wetland is not aesthetically pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by development		
	>50% of wetland can be seen	Unpleasant odors are present sometimes		
	Visual detractors present, can't be removed	Some traffic and natural noises are present		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-3
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	3.60
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Mill site, Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	B	Q-1	B	Q-1	A
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	A	Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	C	Q-4	A
Q-5	B	Q-5		Q-5	A	Q-5	C	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	A	Q-6	C
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	C	Q-1	C
Q-2	C	Q-2	B	Q-2	C	Q-2	B
Q-3		Q-3	B	Q-3	B	Q-3	C
Q-4	B	Q-4	B	Q-4	B	Q-4	C
Q-5B	B	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	A	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-3
Location:	Curry County	Approx. Area (acres):	3.60
Date:	5/8/01	Wetland Types(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land is mostly developed	
	Less than 0.5 acres of open water	Wetland buffer is between 10% and 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is precipitation	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is mostly developed	
	Moderate vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding	
	Wetland floods/ponds in growing season	Development downslope of wetland	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is precipitation	Wetland buffer is between 10% and 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland has potential for educational use		
Rationale:	Wetland access by landowner permission	No access point to wetland exists	
	1 or 2 visible safety hazards	Wetland is limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is not aesthetically pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by development	
	25 - 50% of wetland can be seen	Unpleasant odors are present sometimes	
	Visual detractors present, can't be removed	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-4A
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	OFF-SITE	Approx. Area (acres):	8.85
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	B	Q-1	A
Q-2	C	Q-2	B	Q-2	A	Q-2	A	Q-2	B
Q-3	B	Q-3	B	Q-3	A	Q-3	A	Q-3	C
Q-4	C	Q-4	A	Q-4	A	Q-4	C	Q-4	C
Q-5	A	Q-5	A	Q-5	C	Q-5	C	Q-5	A
Q-6	A	Q-6	B	Q-6	C	Q-6	A	Q-6	C
Q-7	A					Q-7	C		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	A	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-4A
Location:	Curry County	Approx. Area (acres):	8.85	
Date:	OFF-SITE	Wetland Type(s):	PEM	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	More than one Cowardin class	No adjacent Water Quality limited streams		
	Herbaceous vegetation, no ponding	Adjacent land is primarily open space		
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%		
Result:	Wetland's fish habitat function is impacted or degraded			
Rationale:	Less than 25% of stream is shaded	No adjacent Water Quality Limited streams		
	Only portions of stream are modified	Adjacent land is primarily open space		
	10-25% of stream has instream structures	Warmwater fish present in stream		
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is groundwater	Wetland is more than 5 acres in size		
	Wetland floods/ponds in growing season	Adjacent land is primarily open space		
	High wetland vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding		
	Wetland floods/ponds in growing season	Development downslope of wetland		
	Water has unrestricted flow out of wetland	Open space upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream modified or isolated wetland	Adjacent land is primarily open space		
	Water not taken out	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding		
Result:	Wetland has high enhancement potential			
Rationale:	Wetland functions are impacted or degraded	Wetland is greater than 5 acres		
	Primary water source is groundwater	Wetland buffer is greater than 40%		
	Water flow is permanently restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	No access allowed to wetland	No access point to wetland exists		
	No visible hazards to public	Wetland is not limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	No trails or viewing areas exist	No hunting is allowed		
Result:	Wetland is considered to be pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas		
	>50% of wetland can be seen	Natural odors present at wetland		
	No visual detractors are present	Some traffic and natural noises are present		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-4B
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	OFF-SITE	Approx. Area (acres):	0.45
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	C	Q-1	B	Q-1	B
Q-2	C	Q-2		Q-2	B	Q-2	B	Q-2	B
Q-3	C	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	B
Q-5	B	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	A	Q-6	C
Q-7	A					Q-7	C		
Q-8	B								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control function is lost or not present
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	C	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-4B
Location:	Curry County	Approx. Area (acres):	0.45
Date:	OFF-SITE	Wetland Types(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Isolated from other wetlands	
	Can't determine if wetland floods or ponds	Adjacent land use is primarily agriculture	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is lost or not present		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding	
	Can't determine if wetland floods or ponds	Development downslope of wetland	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land use is primarily agriculture	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	One or more functions lost/not present	Wetland is less than 0.5 acres	
	Primary water source is groundwater	Wetland buffer is greater than 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-5
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	OFF-SITE	Approx. Area (acres):	0.62
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	Jerrys Flat Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	C	Q-1	B	Q-1	B
Q-2	C	Q-2		Q-2	B	Q-2	B	Q-2	B
Q-3	C	Q-3		Q-3	B	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	A
Q-5	B	Q-5		Q-5	A	Q-5	C	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	A	Q-6	C
Q-7	A					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control function is lost or not present
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	C	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-5
Location:	Curry County	Approx. Area (acres):	0.62
Date:	OFF-SITE	Wetland Types(s):	PEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation, no ponding	Adjacent land is mostly developed	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is impacted or degraded		
Rationale:	Primary water source is groundwater	Isolated from other wetlands	
	Can't determine if wetland floods or ponds	Adjacent land is mostly developed	
	Moderate vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control function is lost or not present		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding	
	Can't determine if wetland floods or ponds	Development downslope of wetland	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land is mostly developed	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	One or more functions lost/not present	Wetland is less than 0.5 acres	
	Primary water source is groundwater	Wetland buffer is greater than 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-6A
Project Location:	Curry County	Wetland Type(s):	PFO
Date(s) of field work:	5/8/01	Approx. Area (acres):	0.08
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Saunders Creek Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1		Q-1	C	Q-1	B	Q-1	B
Q-2	B	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	B	Q-3		Q-3	A	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	C
Q-5	B	Q-5		Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	A	Q-6	B
Q-7	A					Q-7	C		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is lost or not present
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	C	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-6A
Location:	Curry County	Approx. Area (acres):	0.08
Date:	5/8/01	Wetland Type(s):	PFO
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams	
	Herbaceous vegetation & ponding	Adjacent land is primarily open space	
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is lost or not present		
Rationale:	Primary water source is groundwater	Isolated from other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is primarily open space	
	High wetland vegetation cover	No adjacent Water Quality Limited streams	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation & ponding	
	Wetland floods/ponds in growing season	Development downslope of wetland	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land is primarily open space	
	Water not taken out	Adjacent zoning is primarily development	
	No adjacent Water Quality Limited streams	Herbaceous vegetation & ponding	
Result:	Wetland has moderate potential for enhancement		
Rationale:	One or more functions lost/not present	Wetland is less than 0.5 acres	
	Primary water source is groundwater	Wetland buffer is greater than 40%	
	Water flow is permanently restricted	Potentially sensitive to future impacts	
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland is not appropriate or does not provide rec. opportunities		
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife	
	No boat launching can be developed	No fishing is allowed	
	No trails or viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-6B, 6C
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	0.05
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Saunders Creek Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	C	Q-1	B	Q-1	B
Q-2	C	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3		Q-3	C	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	C	Q-4	C	Q-4	B
Q-5	B	Q-5		Q-5	B	Q-5	C	Q-5	A
Q-6	B	Q-6		Q-6	C	Q-6	A	Q-6	C
Q-7	A					Q-7	C		
Q-8	B								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is lost or not present
Hydrologic Control	Wetland's hydrologic control function is lost or not present
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	C	Q-1	C
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	C	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-6B, 6C
Location:	Curry County	Approx. Area (acres):	0.05	
Date:	5/8/01	Wetland Type(s):	PEM	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams		
	Herbaceous vegetation, no ponding	Adjacent land use is primarily agriculture		
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is lost or not present			
Rationale:	Primary water source is groundwater	Isolated from other wetlands		
	Wetland floods/ponds in growing season	Adjacent land use is primarily agriculture		
	Low vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control function is lost or not present			
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation, no ponding		
	Wetland floods/ponds in growing season	Development downslope of wetland		
	Water has unrestricted flow out of wetland	Open space upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream not modified	Adjacent land use is primarily agriculture		
	Water not taken out	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Herbaceous vegetation, no ponding		
Result:	Wetland has moderate potential for enhancement			
Rationale:	One or more functions lost/not present	Wetland is less than 0.5 acres		
	Primary water source is groundwater	Wetland buffer is greater than 40%		
	Water flow is permanently restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	No access allowed to wetland	No access point to wetland exists		
	No visible hazards to public	Wetland is not limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	No trails or viewing areas exist	No hunting is allowed		
Result:	Wetland is considered to be pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas		
	>50% of wetland can be seen	Natural odors present at wetland		
	No visual detractors are present	Some traffic and natural noises are present		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-7A
Project Location:	Curry County	Wetland Type(s):	PEMx, PSS
Date(s) of field work:	5/8/01	Approx. Area (acres):	0.22
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Jerrys Flat Road at Indian Creek and Rogue River		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1		Q-1	C	Q-1	A	Q-1	B
Q-2	B	Q-2		Q-2	A	Q-2	A	Q-2	A
Q-3	B	Q-3		Q-3	B	Q-3	C	Q-3	A
Q-4	C	Q-4		Q-4	C	Q-4	A	Q-4	C
Q-5	B	Q-5		Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6		Q-6	A	Q-6	C	Q-6	B
Q-7	C					Q-7	C		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	B	Q-1	B
Q-2	B	Q-2	A	Q-2	C	Q-2	A
Q-3		Q-3	B	Q-3	B	Q-3	A
Q-4	C	Q-4	B	Q-4	B	Q-4	A
Q-5B	A	Q-5	B	Q-5	A	Q-5	A
Q-6	B	Q-6	A	Q-6	B	Q-6	A

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland has the potential to provide recreational activities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-7A
Location:	Curry County	Approx. Area (acres):	0.22	
Date:	5/8/01	Wetland Type(s):	PEMx, PSS	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	More than one Cowardin class	Adjacent Water Quality limited stream		
	Herbaceous vegetation & ponding	Adjacent land is primarily open space		
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is groundwater	Isolated from other wetlands		
	Wetland floods/ponds in growing season	Adjacent land is primarily open space		
	Moderate vegetation cover	Adjacent Water Quality Limited stream		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is within 100 year floodplain	Herbaceous vegetation & ponding		
	Wetland floods/ponds in growing season	Open space downslope of development		
	Flow out of wetland is restricted	Open space upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream not modified	Adjacent land is primarily open space		
	Water is taken out or isolated wetland	Adjacent zoning is primarily development		
	Adjacent Water Quality Limited stream	Herbaceous vegetation & ponding		
Result:	Wetland has high enhancement potential			
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres		
	Primary water source is groundwater	Wetland buffer is greater than 40%		
	Water flow is permanently restricted	Potentially sensitive to future impacts		
Result:	Wetland has potential for educational use			
Rationale:	Wetland access by landowner permission	Unmaintained public access within 250 feet		
	No visible hazards to public	Wetland is limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland has the potential to provide recreational activities			
Rationale:	Unmaintained public access within 250 feet	Wetland provides habitat for some wildlife		
	No boat launching can be developed	Fishing is allowed		
	Unmaintained trails, viewing areas exist	No hunting is allowed		
Result:	Wetland is considered to be pleasing			
Rationale:	Two Cowardin classes visible	Wetland surrounded by natural areas		
	>50% of wetland can be seen	Natural odors present at wetland		
	No visual detractors are present	Some traffic and natural noises are present		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-7B
Project Location:	Curry County	Wetland Type(s):	EEM, ESS
Date(s) of field work:	5/8/01	Approx. Area (acres):	3.91
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Jerrys Flat Road at Indian Creek and Rogue River		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	A	Q-1	A	Q-1	A	Q-1	B
Q-2	A	Q-2	B	Q-2	A	Q-2	A	Q-2	A
Q-3	A	Q-3	B	Q-3	A	Q-3	B	Q-3	A
Q-4	A	Q-4	C	Q-4	B	Q-4	C	Q-4	C
Q-5	A	Q-5	A	Q-5	C	Q-5	A	Q-5	C
Q-6	A	Q-6	A	Q-6	A	Q-6	C	Q-6	A
Q-7	C					Q-7	C		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides diverse wildlife habitat
Fish Habitat	Wetland's fish habitat function is intact
Water Quality	Wetland's water-quality function is intact
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1		Q-1	C	Q-1	C	Q-1	B
Q-2		Q-2	A	Q-2	A	Q-2	C
Q-3		Q-3	A	Q-3	B	Q-3	A
Q-4		Q-4	B	Q-4	A	Q-4	A
Q-5B		Q-5	C	Q-5	A	Q-5	A
Q-6		Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Due to diverse wildlife habitat, this wetland cannot be enhanced
Education	Wetland site is not appropriate for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be moderately pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-7B
Location:	Curry County	Approx. Area (acres):	3.91
Date:	5/8/01	Wetland Types(s):	EEM, ESS
Result:	Wetland provides diverse wildlife habitat		
Rationale:	More than one Cowardin class	Adjacent Water Quality limited stream	
	Dominated by woody vegetation	Adjacent land is primarily open space	
	Greater than 1 acre of open water	Wetland buffer is greater than 40%	
Result:	Wetland's fish habitat function is intact		
Rationale:	50% or more of stream is shaded	Adjacent Water Quality Limited stream	
	Only portions of stream are modified	Adjacent land is primarily open space	
	10-25% of stream has instream structures	Salmon and/or trout present in stream	
Result:	Wetland's water-quality function is intact		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is primarily open space	
	High wetland vegetation cover	Adjacent Water Quality Limited stream	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is within 100 year floodplain	Dominated by woody vegetation	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land is primarily open space	
	Water is taken out or isolated wetland	Adjacent zoning is mostly open space	
	Adjacent Water Quality Limited stream	Dominated by woody vegetation	
Result:	Due to diverse wildlife habitat, this wetland cannot be enhanced		
Rationale:			
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland provides recreational opportunities		
Rationale:	No access point to wetland exists	Wetland provides diverse wildlife habitat	
	Boat launching within 1/2 mile	Fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be moderately pleasing		
Rationale:	Two Cowardin classes visible	Wetland surrounded by natural areas	
	Less than 25% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-7C
Project Location:	Curry County	Wetland Type(s):	ESS
Date(s) of field work:	5/8/01	Approx. Area (acres):	3.88
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Jerrys Flat Road at Indian Creek and Rogue River		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1		Q-1	A	Q-1	A	Q-1	B
Q-2	A	Q-2		Q-2	A	Q-2	A	Q-2	A
Q-3	A	Q-3		Q-3	A	Q-3	B	Q-3	A
Q-4	A	Q-4		Q-4	B	Q-4	C	Q-4	C
Q-5	B	Q-5		Q-5	C	Q-5	A	Q-5	C
Q-6	A	Q-6		Q-6	A	Q-6	C	Q-6	A
Q-7	C					Q-7	C		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides diverse wildlife habitat
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is intact
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1		Q-1	C	Q-1	C	Q-1	B
Q-2		Q-2	A	Q-2	A	Q-2	C
Q-3		Q-3	A	Q-3	B	Q-3	A
Q-4		Q-4	B	Q-4	A	Q-4	A
Q-5B		Q-5	C	Q-5	A	Q-5	A
Q-6		Q-6	B	Q-6	B	Q-6	A

Results:

Enhancement Potential	Due to diverse wildlife habitat, this wetland cannot be enhanced
Education	Wetland site is not appropriate for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be moderately pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-7C
Location:	Curry County	Approx. Area (acres):	3.88
Date:	5/8/01	Wetland Types(s):	ESS
Result:	Wetland provides diverse wildlife habitat		
Rationale:	More than one Cowardin class	Adjacent Water Quality limited stream	
	Dominated by woody vegetation	Adjacent land is primarily open space	
	Greater than 1 acre of open water	Wetland buffer is greater than 40%	
Result:	Fish habitat was not assessed for this wetland		
Rationale:			
Result:	Wetland's water-quality function is intact		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is primarily open space	
	High wetland vegetation cover	Adjacent Water Quality Limited stream	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is within 100 year floodplain	Dominated by woody vegetation	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land is primarily open space	
	Water is taken out or isolated wetland	Adjacent zoning is mostly open space	
	Adjacent Water Quality Limited stream	Dominated by woody vegetation	
Result:	Due to diverse wildlife habitat, this wetland cannot be enhanced		
Rationale:			
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	No visible hazards to public	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland provides recreational opportunities		
Rationale:	No access point to wetland exists	Wetland provides diverse wildlife habitat	
	Boat launching within 1/2 mile	Fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be moderately pleasing		
Rationale:	Two Cowardin classes visible	Wetland surrounded by natural areas	
	Less than 25% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Some traffic and natural noises are present	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-8
Project Location:	Curry County	Wetland Type(s):	EEM
Date(s) of field work:	5/8/01	Approx. Area (acres):	0.98
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Jerrys Flat Road south of levee and east of bridge		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	A	Q-1	A	Q-1	B
Q-2	B	Q-2	A	Q-2	A	Q-2	A	Q-2	A
Q-3	B	Q-3	B	Q-3	A	Q-3	B	Q-3	A
Q-4	A	Q-4	C	Q-4	B	Q-4	C	Q-4	C
Q-5	A	Q-5	A	Q-5	C	Q-5	B	Q-5	C
Q-6	A	Q-6	A	Q-6	A	Q-6	C	Q-6	B
Q-7	C					Q-7	C		
Q-8	A								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides diverse wildlife habitat
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is intact
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1		Q-1	C	Q-1	C	Q-1	C
Q-2		Q-2	B	Q-2	A	Q-2	A
Q-3		Q-3	A	Q-3	B	Q-3	A
Q-4		Q-4	B	Q-4	A	Q-4	A
Q-5B		Q-5	C	Q-5	A	Q-5	A
Q-6		Q-6	B	Q-6	B	Q-6	B

Results:

Enhancement Potential	Due to diverse wildlife habitat, this wetland cannot be enhanced
Education	Wetland site is not appropriate for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is considered to be pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-8
Location:	Curry County	Approx. Area (acres):	0.98
Date:	5/8/01	Wetland Types(s):	EEM
Result:	Wetland provides diverse wildlife habitat		
Rationale:	One Cowardin class with > 5 species	Adjacent Water Quality limited stream	
	Herbaceous vegetation & ponding	Adjacent land is primarily open space	
	Greater than 1 acre of open water	Wetland buffer is greater than 40%	
Result:	Wetland's fish habitat function is impacted or degraded		
Rationale:	Less than 25% of stream is shaded	Adjacent Water Quality Limited stream	
	Stream is in a natural channel	Adjacent land is primarily open space	
	10-25% of stream has instream structures	Salmon and/or trout present in stream	
Result:	Wetland's water-quality function is intact		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is primarily open space	
	High wetland vegetation cover	Adjacent Water Quality Limited stream	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is within 100 year floodplain	Herbaceous vegetation & ponding	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land is primarily open space	
	Water is taken out or isolated wetland	Adjacent zoning is mostly open space	
	Adjacent Water Quality Limited stream	Herbaceous vegetation & ponding	
Result:	Due to diverse wildlife habitat, this wetland cannot be enhanced		
Rationale:			
Result:	Wetland site is not appropriate for educational use		
Rationale:	No access allowed to wetland	No access point to wetland exists	
	1 or 2 visible safety hazards	Wetland is not limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland provides recreational opportunities		
Rationale:	No access point to wetland exists	Wetland provides diverse wildlife habitat	
	Boat launching within 1/2 mile	Fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is considered to be pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by natural areas	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-9
Project Location:	Curry County	Wetland Type(s):	PEM
Date(s) of field work:	OFF-SITE	Approx. Area (acres):	0.04
Onsite Assessment?:	No	Investigator(s):	PF, JVS
Wetland Location:	South of Hwy. 101 Bridge, base of Tom Cat Hill Road		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	C	Q-1		Q-1	A	Q-1	B	Q-1	A
Q-2	B	Q-2		Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3		Q-3	B	Q-3	C	Q-3	C
Q-4	C	Q-4		Q-4	B	Q-4	B	Q-4	A
Q-5	A	Q-5		Q-5	A	Q-5	B	Q-5	A
Q-6	A	Q-6		Q-6	C	Q-6	C	Q-6	B
Q-7	A					Q-7	A		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Fish habitat was not assessed for this wetland
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	C	Q-1	C
Q-2	A	Q-2	B	Q-2	C	Q-2	A
Q-3	A	Q-3	B	Q-3	B	Q-3	C
Q-4	C	Q-4	B	Q-4	B	Q-4	B
Q-5B	B	Q-5	C	Q-5	B	Q-5	B
Q-6	B	Q-6	A	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has moderate potential for enhancement
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-9
Location:	Curry County	Approx. Area (acres):	0.04	
Date:	OFF-SITE	Wetland Types(s):	PEM	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Class with less than 5 species	No adjacent Water Quality limited streams		
	Herbaceous vegetation & ponding	Adjacent land is mostly developed		
	Less than 0.5 acres of open water	Wetland buffer is between 10% and 40%		
Result:	Fish habitat was not assessed for this wetland			
Rationale:				
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands		
	Wetland floods/ponds in growing season	Adjacent land is mostly developed		
	Moderate vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control is impacted or degraded			
Rationale:	Wetland is not within 100 year floodplain	Herbaceous vegetation & ponding		
	Wetland floods/ponds in growing season	Open space downslope of development		
	Minor restrictions slow down the water	Development upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed		
	Water not taken out	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Herbaceous vegetation & ponding		
Result:	Wetland has moderate potential for enhancement			
Rationale:	One or more functions lost/not present	Wetland is less than 0.5 acres		
	Primary water source is surface flow	Wetland buffer is between 10% and 40%		
	Flow into wetland is not restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	No access allowed to wetland	No access point to wetland exists		
	1 or 2 visible safety hazards	Wetland is limited mobility accessible		
	Other habitats can be observed not accessed			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	Unmaintained trails, viewing areas exist	No hunting is allowed		
Result:	Wetland is not aesthetically pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by landscaped areas		
	>50% of wetland can be seen	Unpleasant odors are present sometimes		
	Visual detractors present, can't be removed	Continuous traffic and natural noises occur		

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-10
Project Location:	Curry County	Wetland Type(s):	EEM
Date(s) of field work:	5/22/01	Approx. Area (acres):	2.66
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Port of Gold Beach property at west end of marina		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	C	Q-1	A	Q-1	A	Q-1	B
Q-2	B	Q-2	B	Q-2	A	Q-2	A	Q-2	A
Q-3	C	Q-3	C	Q-3	A	Q-3	B	Q-3	A
Q-4	A	Q-4	C	Q-4	B	Q-4	C	Q-4	A
Q-5	A	Q-5	C	Q-5	A	Q-5	B	Q-5	A
Q-6	A	Q-6	A	Q-6	A	Q-6	C	Q-6	B
Q-7	C					Q-7	C		
Q-8	C								
Q-9A									
Q-9B	B								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is intact
Hydrologic Control	Wetland's hydrologic control is impacted or degraded
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	B	Q-1	B	Q-1	C
Q-2	A	Q-2	B	Q-2	A	Q-2	A
Q-3	A	Q-3	B	Q-3	B	Q-3	A
Q-4	B	Q-4	B	Q-4	B	Q-4	C
Q-5B	B	Q-5	B	Q-5	A	Q-5	A
Q-6	B	Q-6	A	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland has potential for educational use
Recreation	Wetland provides recreational opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI	Wetland:	RO-10
Location:	Curry County	Approx. Area (acres):	2.66
Date:	5/22/01	Wetland Types(s):	EEM
Result:	Wetland provides habitat for some wildlife species		
Rationale:	One Cowardin class with > 5 species	Adjacent Water Quality limited stream	
	Herbaceous vegetation & ponding	Adjacent land is mostly developed	
	Greater than 1 acre of open water	Wetland buffer is between 10% and 40%	
Result:	Wetland's fish habitat function is impacted or degraded		
Rationale:	Less than 25% of stream is shaded	Adjacent Water Quality Limited stream	
	Only portions of stream are modified	Adjacent land is mostly developed	
	<10% of stream has instream structures	Salmon and/or trout present in stream	
Result:	Wetland's water-quality function is intact		
Rationale:	Primary water source is surface flow	Surface water connection to other wetlands	
	Wetland floods/ponds in growing season	Adjacent land is mostly developed	
	High wetland vegetation cover	Adjacent Water Quality Limited stream	
Result:	Wetland's hydrologic control is impacted or degraded		
Rationale:	Wetland is within 100 year floodplain	Herbaceous vegetation & ponding	
	Wetland floods/ponds in growing season	Open space downslope of development	
	Water has unrestricted flow out of wetland	Open space upslope of wetland	
Result:	Wetland is potentially sensitive to future impacts		
Rationale:	Stream not modified	Adjacent land is mostly developed	
	Water is taken out or isolated wetland	Adjacent zoning is primarily development	
	Adjacent Water Quality Limited stream	Herbaceous vegetation & ponding	
Result:	Wetland has high enhancement potential		
Rationale:	Wetland functions are impacted or degraded	Wetland is between 0.5 and 5 acres	
	Primary water source is surface flow	Wetland buffer is between 10% and 40%	
	Flow into wetland is not restricted	Potentially sensitive to future impacts	
Result:	Wetland has potential for educational use		
Rationale:	Wetland access by landowner permission	Unmaintained public access within 250 feet	
	1 or 2 visible safety hazards	Wetland is limited mobility accessible	
	Other habitats can be observed not accessed		
Result:	Wetland provides recreational opportunities		
Rationale:	Unmaintained public access within 250 feet	Wetland provides habitat for some wildlife	
	Boat launching within 1/2 mile	Fishing is allowed	
	Unmaintained trails, viewing areas exist	No hunting is allowed	
Result:	Wetland is not aesthetically pleasing		
Rationale:	One Cowardin class is visible	Wetland surrounded by development	
	>50% of wetland can be seen	Natural odors present at wetland	
	No visual detractors are present	Continuous traffic and natural noises occur	

Oregon Freshwater Wetland Assessment Methodology

(Revised Edition, April 1996)

Wetland Assessment Summary Sheet



Pacific Habitat Services, Inc.

Project Name:	Gold Beach LWI	Wetland:	RO-11
Project Location:	Curry County	Wetland Type(s):	PSS
Date(s) of field work:	5/7/01	Approx. Area (acres):	0.13
Onsite Assessment?:	Yes	Investigator(s):	PF, JVS
Wetland Location:	Dean Creek between Caughell and Strahan Streets, west of Hwy. 101		

Function and Condition Assessment Answers:

Wildlife Habitat		Fish Habitat		Water Quality		Hydrologic Control		Sensitivity to Impact	
Q	A	Q	A	Q	A	Q	A	Q	A
Q-1	B	Q-1	A	Q-1	A	Q-1	B	Q-1	A
Q-2	A	Q-2	B	Q-2	A	Q-2	A	Q-2	B
Q-3	C	Q-3	C	Q-3	C	Q-3	C	Q-3	C
Q-4	C	Q-4	A	Q-4	C	Q-4	C	Q-4	A
Q-5	A	Q-5	C	Q-5	A	Q-5	A	Q-5	A
Q-6	A	Q-6	B	Q-6	C	Q-6	A	Q-6	A
Q-7	A					Q-7	A		
Q-8	C								
Q-9A									
Q-9B	A								

Results:

Wildlife Habitat	Wetland provides habitat for some wildlife species
Fish Habitat	Wetland's fish habitat function is impacted or degraded
Water Quality	Wetland's water-quality function is impacted or degraded
Hydrologic Control	Wetland's hydrologic control function is intact
Sensitivity to Impact	Wetland is potentially sensitive to future impacts

Function and Condition Assessment Answers:

Enhancement Potential		Education		Recreation		Aesthetic Quality	
Q	A	Q	A	Q	A	Q	A
Q-1	A	Q-1	C	Q-1	C	Q-1	C
Q-2	A	Q-2	A	Q-2	C	Q-2	C
Q-3	A	Q-3	B	Q-3	C	Q-3	A
Q-4	C	Q-4	C	Q-4	B	Q-4	B
Q-5B	A	Q-5	C	Q-5	B	Q-5	A
Q-6	B	Q-6	B	Q-6	B	Q-6	B

Results:

Enhancement Potential	Wetland has high enhancement potential
Education	Wetland site is not appropriate for educational use
Recreation	Wetland is not appropriate or does not provide rec. opportunities
Aesthetic Quality	Wetland is not aesthetically pleasing

Oregon Freshwater Wetland Assessment Methodology

Functions and Conditions Summary Sheet



Project:	Gold Beach LWI		Wetland:	RO-11
Location:	Curry County	Approx. Area (acres):	0.13	
Date:	5/7/01	Wetland Types(s):	PSS	
Result:	Wetland provides habitat for some wildlife species			
Rationale:	One Cowardin class with > 5 species	No adjacent Water Quality limited streams		
	Dominated by woody vegetation	Adjacent land is mostly developed		
	Less than 0.5 acres of open water	Wetland buffer is greater than 40%		
Result:	Wetland's fish habitat function is impacted or degraded			
Rationale:	50% or more of stream is shaded	No adjacent Water Quality Limited streams		
	Only portions of stream are modified	Adjacent land is mostly developed		
	<10% of stream has instream structures	Warmwater fish present in stream		
Result:	Wetland's water-quality function is impacted or degraded			
Rationale:	Primary water source is surface flow	Isolated from other wetlands		
	Wetland floods/ponds in growing season	Adjacent land is mostly developed		
	Low vegetation cover	No adjacent Water Quality Limited streams		
Result:	Wetland's hydrologic control function is intact			
Rationale:	Wetland is not within 100 year floodplain	Dominated by woody vegetation		
	Wetland floods/ponds in growing season	Development downslope of wetland		
	Water has unrestricted flow out of wetland	Development upslope of wetland		
Result:	Wetland is potentially sensitive to future impacts			
Rationale:	Stream modified or isolated wetland	Adjacent land is mostly developed		
	Water not taken out	Adjacent zoning is primarily development		
	No adjacent Water Quality Limited streams	Dominated by woody vegetation		
Result:	Wetland has high enhancement potential			
Rationale:	Wetland functions are impacted or degraded	Wetland is less than 0.5 acres		
	Primary water source is surface flow	Wetland buffer is greater than 40%		
	Flow into wetland is not restricted	Potentially sensitive to future impacts		
Result:	Wetland site is not appropriate for educational use			
Rationale:	No access allowed to wetland	No access point to wetland exists		
	No visible hazards to public	Wetland is not limited mobility accessible		
	No access or observation of other habitats			
Result:	Wetland is not appropriate or does not provide rec. opportunities			
Rationale:	No access point to wetland exists	Wetland provides habitat for some wildlife		
	No boat launching can be developed	No fishing is allowed		
	No trails or viewing areas exist	No hunting is allowed		
Result:	Wetland is not aesthetically pleasing			
Rationale:	One Cowardin class is visible	Wetland surrounded by landscaped areas		
	Less than 25% of wetland can be seen	Natural odors present at wetland		
	No visual detractors are present	Continuous traffic and natural noises occur		

Appendix D

Locally Significant Wetland / Major Marsh Determination Sheets



Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	HC-1
Project Location:	Curry County	Approx. Area (acres):	5.15
Date:	8/8/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".	YES	NO
1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining storm water		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?		No
4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?		No
EXCLUSION CRITERIA SATISFIED?		No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.		
1 Does the wetland provide diverse wildlife habitat?		No
2 Is the wetland's fish habitat function intact?		No
3 Is the wetland's water quality function intact?		No
4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?	Yes	
5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i> ?	Yes	

Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	HC-2
Project Location:	Curry County	Approx. Area (acres):	0.06
Date:	8/8/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

	YES	NO
1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining storm water		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?		No
4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?		No
EXCLUSION CRITERIA SATISFIED?		No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide diverse wildlife habitat?		No
2 Is the wetland's fish habitat function intact?		No
3 Is the wetland's water quality function intact?		No
4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?		No
5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i> ?		No

Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	HC-3
Project Location:	Curry County	Approx. Area (acres):	2.96
Date:	5/8/01	Wetland Types(s):	PEM, PSS

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

- | | YES | NO |
|---|-----|----|
| 1 Is this wetland artificially created entirely from upland and: | | |
| a. created for the purpose of controlling, storing, or maintaining storm water | | No |
| b. is used for active surface mining or as a log pond | | No |
| c. is a ditch without a free and open connection to natural waters of the state | | No |
| d. is less than 1 acre and created unintentionally from irrigation or construction | | No |
| e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard | | No |
| 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b) | | No |
| 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan? | | No |
| 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan? | | No |

EXCLUSION CRITERIA SATISFIED?		No
--------------------------------------	--	----

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- | | | |
|---|-----|----|
| 1 Does the wetland provide diverse wildlife habitat? | | No |
| 2 Is the wetland's fish habitat function intact? | | No |
| 3 Is the wetland's water quality function intact? | | No |
| 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain? | Yes | |
| 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded? | | No |
| 6 Does the wetland contain a rare plant community? | | No |
| 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered? | | No |
| 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek and Pacific Ocean (water body mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i> ? | | No |

Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	HC-4
Project Location:	Curry County	Approx. Area (acres):	0.13
Date:	5/22/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan* ?

<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	HC-5
Project Location:	Curry County	Approx. Area (acres):	1.72
Date:	5/22/01	Wetland Types(s):	PSS

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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EXCLUSION CRITERIA SATISFIED?	No
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Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No

Yes	<input type="checkbox"/>
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<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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Major Marsh

Appendix D

Locally Significant Wetland / Major Marsh Determination Sheets



Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	PA-1
Project Location:	Curry County	Approx. Area (acres):	0.29
Date:	5/22/01	Wetland Types(s):	PSS

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No

	No
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	No
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	No
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	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

	No
	No
	No

	No
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	No
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	No
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	No
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	No
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Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	PA-2A
Project Location:	Curry County	Approx. Area (acres):	0.35
Date:	5/22/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No
	No
	No
	No
	No
	No

EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek, or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

	No
	No
Yes	
	No
	No
	No
	No
	No
	No

Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	PA-2B
Project Location:	Curry County	Approx. Area (acres):	0.08
Date:	5/22/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No

	No
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	No
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	No
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	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

	No
	No
	No

	No
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	No
	No

	No
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	No
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Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	PA-2C
Project Location:	Curry County	Approx. Area (acres):	0.22
Date:	5/22/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No

	No
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	No
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	No
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	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogure River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

	No
	No
Yes	

	No
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	No
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	No
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	No
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	No
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Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	PA-3
Project Location:	Curry County	Approx. Area (acres):	0.86
Date:	5/22/01	Wetland Types(s):	PEM, PSS

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No

	No
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	No
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	No
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	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

	No
	No
	No

	No
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	No
	No

	No
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	No
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Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	PA-4
Project Location:	Curry County	Approx. Area (acres):	0.11
Date:	5/22/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No

	No
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	No
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	No
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	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

	No
	No
	No

	No
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	No
	No

	No
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	No
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Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	RO-1
Project Location:	Curry County	Approx. Area (acres):	0.32
Date:	5/8/01	Wetland Types(s):	PSS, PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

	YES	NO
1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining storm water		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?		No
4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?		No
EXCLUSION CRITERIA SATISFIED?		No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide diverse wildlife habitat?		No
2 Is the wetland's fish habitat function intact?		No
3 Is the wetland's water quality function intact?		No
4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?		No
5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i> ?		No

Does not satisfy criteria, not a Major Marsh

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-2A
Project Location:	Curry County	Approx. Area (acres):	3.1
Date:	5/8/01	Wetland Types(s):	PUBx

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-2B
Project Location:	Curry County	Approx. Area (acres):	12.19
Date:	5/8/01	Wetland Types(s):	PUBx, PEM

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-2C
Project Location:	Curry County	Approx. Area (acres):	1.62
Date:	5/8/01	Wetland Types(s):	PEM

Exclusions: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria: This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-2D
Project Location:	Curry County	Approx. Area (acres):	1.15
Date:	5/8/01	Wetland Types(s):	PUBx, PEM

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-2E
Project Location:	Curry County	Approx. Area (acres):	0.18
Date:	5/8/01	Wetland Types(s):	PSS

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-2F
Project Location:	Curry County	Approx. Area (acres):	0.08
Date:	5/8/01	Wetland Types(s):	PEM

Exclusions: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1	Is this wetland artificially created entirely from upland and:		
a.	created for the purpose of controlling, storing, or maintaining stormwater		No
b.	is used for active surface mining or as a log pond		No
c.	is a ditch without a free and open connection to natural waters of the state		No
d.	is less than 1 acre and created unintentionally from irrigation or construction		No
e.	created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2	Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?			No

Mandatory Locally Significant Wetland Criteria: This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1	Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2	Is the wetland's <i>fish habitat function intact</i> ?		No
3	Is the wetland's <i>water quality function intact</i> ?		No
4	Is the wetland's <i>hydrologic control function intact</i> ?		No
5	Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6	Does the wetland contain a rare plant community?		No
7	Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8	Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?			No

Optional Locally Significant Wetland Criteria: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1	Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2	Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?			No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-3
Project Location:	Curry County	Approx. Area (acres):	3.6
Date:	5/8/01	Wetland Types(s):	PEM

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-4A
Project Location:	Curry County	Approx. Area (acres):	8.85
Date:	OFF-SITE	Wetland Types(s):	PEM

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?	Yes	No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?	Yes	No
Mandatory Locally Significant Wetland criteria satisfied ?		Yes

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-4B
Project Location:	Curry County	Approx. Area (acres):	0.45
Date:	OFF-SITE	Wetland Types(s):	PEM

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-5
Project Location:	Curry County	Approx. Area (acres):	0.62
Date:	OFF-SITE	Wetland Types(s):	PEM

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-6A
Project Location:	Curry County	Approx. Area (acres):	0.08
Date:	5/8/01	Wetland Types(s):	PFO

Exclusions: This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:			
a. created for the purpose of controlling, storing, or maintaining stormwater			No
b. is used for active surface mining or as a log pond			No
c. is a ditch without a free and open connection to natural waters of the state			No
d. is less than 1 acre and created unintentionally from irrigation or construction			No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard			No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)			No
Exclusion criteria satisfied?			No

Mandatory Locally Significant Wetland Criteria: This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?			
2 Is the wetland's <i>fish habitat function intact</i> ?			No
3 Is the wetland's <i>water quality function intact</i> ?			No
4 Is the wetland's <i>hydrologic control function intact</i> ?			No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?			No
6 Does the wetland contain a rare plant community?			No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?			No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?			No
Mandatory Locally Significant Wetland criteria satisfied ?			No

Optional Locally Significant Wetland Criteria: local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .			
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?			No
Optional Locally Significant Wetland criteria satisfied ?			No

Does not satisfy the criteria, Not a Locally Significant Wetland

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-6B, 6C
Project Location:	Curry County	Approx. Area (acres):	0.05
Date:	5/8/01	Wetland Types(s):	PEM

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?		No
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		No

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Does not satisfy the criteria, Not a Locally Significant Wetland

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	RO-7A
Project Location:	Curry County	Approx. Area (acres):	0.22
Date:	5/8/01	Wetland Types(s):	PEMx, PSS

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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EXCLUSION CRITERIA SATISFIED? **No**

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

<input type="checkbox"/>	No
<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
<input type="checkbox"/>	No

<input type="checkbox"/>	No
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<input type="checkbox"/>	No
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Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	RO-7B
Project Location:	Curry County	Approx. Area (acres):	3.91
Date:	5/8/01	Wetland Types(s):	EEM, ESS

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

	YES	NO
1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining storm water		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?		No
4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?		No
EXCLUSION CRITERIA SATISFIED?		No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide diverse wildlife habitat?	Yes	
2 Is the wetland's fish habitat function intact?	Yes	
3 Is the wetland's water quality function intact?	Yes	
4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?		No
5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?	Yes	
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i> ?	Yes	

Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	RO-7C
Project Location:	Curry County	Approx. Area (acres):	3.88
Date:	5/8/01	Wetland Types(s):	ESS

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

	YES	NO
1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining storm water		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?		No
4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?		No
EXCLUSION CRITERIA SATISFIED?		No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide diverse wildlife habitat?	Yes	
2 Is the wetland's fish habitat function intact?		No
3 Is the wetland's water quality function intact?	Yes	
4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?		No
5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?	Yes	
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i> ?	Yes	

Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	RO-8
Project Location:	Curry County	Approx. Area (acres):	0.98
Date:	5/8/01	Wetland Types(s):	EEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No

	No
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	No
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	No
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	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

Yes	
	No
Yes	

	No
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Yes	
	No

	No
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Yes	
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Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	RO-9
Project Location:	Curry County	Approx. Area (acres):	0.04
Date:	5/22/01	Wetland Types(s):	PEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

	YES	NO
1 Is this wetland artificially created entirely from upland and:		
a. created for the purpose of controlling, storing, or maintaining storm water		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?		No
4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?		No
EXCLUSION CRITERIA SATISFIED?		No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide diverse wildlife habitat?		No
2 Is the wetland's fish habitat function intact?		No
3 Is the wetland's water quality function intact?		No
4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?		No
5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as <i>essential indigenous anadromous salmonid habitat</i>) or is the wetland mapped as a significant habitat site on the <i>Oregon Estuary Plan</i> ?		No

Does not satisfy criteria, not a Major Marsh

Goal 17 Significant Wetland (Major Marsh) Criteria



Project Name:	Gold Beach LWI	Wetland Code:	RO-10
Project Location:	Curry County	Approx. Area (acres):	2.66
Date:	5/22/01	Wetland Types(s):	EEM

Exclusions: A wetland cannot be designated as a major marsh if the answer to any of the criteria below is "Yes".

YES NO

- 1 Is this wetland artificially created entirely from upland and:
 - a. created for the purpose of controlling, storing, or maintaining storm water
 - b. is used for active surface mining or as a log pond
 - c. is a ditch without a free and open connection to natural waters of the state
 - d. is less than 1 acre and created unintentionally from irrigation or construction
 - e. created for the purpose of wastewater treatment, farm watering, sediment settling, cooling industrial water, or a golf hazard
- 2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)
- 3 Is the wetland or a portion of the wetland designated as a dredge spoils site in the comprehensive plan?
- 4 Is the wetland or a portion of the wetland designated as a water dependant use in the comprehensive plan?

	No
	No
	No
	No

	No
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	No
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	No
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	No
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EXCLUSION CRITERIA SATISFIED? No

Goal 17 Significant Wetland (Major Marsh) Criteria: A wetland is considered to be a major marsh if "Yes" is the answer to any of the criteria below.

- 1 Does the wetland provide diverse wildlife habitat?
- 2 Is the wetland's fish habitat function intact?
- 3 Is the wetland's water quality function intact?
- 4 Is the wetland's hydrologic control function intact and is the wetland within the 100-year floodplain?
- 5 Does the wetland have a direct surface water connection to the Rogue River (a water body listed by DEQ as a water quality limited water body (303(d) list) and is the wetland's water quality function intact, or impacted or degraded?
- 6 Does the wetland contain a rare plant community?
- 7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?
- 8 Does the wetland have a direct surface water connection to the Rogue River, Hunter Creek or Pacific Ocean (water body mapped by ODFW as *essential indigenous anadromous salmonid habitat*) or is the wetland mapped as a significant habitat site on the *Oregon Estuary Plan*?

	No
	No
Yes	

	No
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Yes	
	No

	No
--	----

Yes	
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Major Marsh

Locally Significant Wetlands Criteria

ORS 197.279 (3)(b)



Project Name:	Gold Beach LWI	Wetland:	RO-11
Project Location:	Curry County	Approx. Area (acres):	0.13
Date:	5/7/01	Wetland Types(s):	PSS

Exclusions : This wetland cannot be designated as significant if the answer to any of the criteria below is "Yes".

1 Is this wetland artificially created entirely from upland and:		No
a. created for the purpose of controlling, storing, or maintaining stormwater		No
b. is used for active surface mining or as a log pond		No
c. is a ditch without a free and open connection to natural waters of the state		No
d. is less than 1 acre and created unintentionally from irrigation or construction		No
e. created for the purpose of wastewater treatment, cranberry production, farm watering, sediment settling, cooling industrial water, or a golf hazard		No
2 Is the wetland or portion of the wetland contaminated by hazardous substances, materials or wastes as per the conditions of ORS 141-86-350 1(b)		No
Exclusion criteria satisfied?		No

Mandatory Locally Significant Wetland Criteria : This wetland is locally significant if "Yes" is the answer to any of the criteria below.

1 Does the wetland provide <i>diverse wildlife habitat</i> ?		No
2 Is the wetland's <i>fish habitat function intact</i> ?		No
3 Is the wetland's <i>water quality function intact</i> ?		No
4 Is the wetland's <i>hydrologic control function intact</i> ?	Yes	
5 Is the wetland less than 1/4 mile from a water body listed by DEQ as a water quality limited water body (303(d) list) <u>and</u> is the wetland's <i>water quality function intact, or impacted or degraded</i> ?		No
6 Does the wetland contain a rare plant community?		No
7 Is the wetland inhabited by any species listed federally as threatened or endangered, or state listed as sensitive, threatened or endangered?		No
8 Does the wetland have a direct surface water connection to a stream segment mapped by ODFW as habitat for indigenous anadromous salmonids <u>and</u> is the wetland's <i>fish habitat function intact, or impacted or degraded</i> ?		No
Mandatory Locally Significant Wetland criteria satisfied ?		Yes

Optional Locally Significant Wetland Criteria : local governments may identify a wetland as significant if "Yes" is the answer to the criteria below

1 Does the wetland represent a locally unique native plant community <u>and</u> provides <i>diverse wildlife habitat or habitat for some species</i> <u>or</u> has a <i>intact, or impacted or degraded fish habitat function</i> <u>or</u> has a <i>intact, or impacted or degraded water quality function</i> <u>or</u> has a <i>intact, or impacted or degraded hydrologic control function</i> .		No
2 Is the wetland publicly owned and used by a school or organization <u>and</u> does the wetland provide <i>educational uses</i> ?		No
Optional Locally Significant Wetland criteria satisfied ?		No

Locally Significant Wetland

Appendix E

Riparian Assessment Forms



Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/23/01

Riparian Code: R-RO-1 L

On-site: Off-Site:

Reach Length: 7,200'

Investigators: JVS/PF

Hydrologic Basin: Rogue River

WATER RESOURCE INFORMATION

Water Resource: Stream/River:
 Lake/Pond:
 Wetland:

Width: 1,000' + feet
 Width: _____ feet
 Width: _____ feet

LWI Wetland Code: RO-10, RO-8,

Water present year-round: Yes No

Are salmonids present in the adjacent water resource? Yes No

Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Yachats very fine sandy loam

Adjacent Land Uses? (Check as many as needed)

Agriculture: Roads:
 Commercial/Indus.: Undeveloped:
 Residential: Forestry:

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Salix hookeriana</i>	<i>Festuca arundinacea</i>
<i>Alnus rubra</i>	<i>Rubus discolor</i>
<i>Pseudotsuga menziesii</i>	
<i>Umbellularia californica</i>	

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-1 L

Date: 5/23/01 **Investigators:** JVS/PF

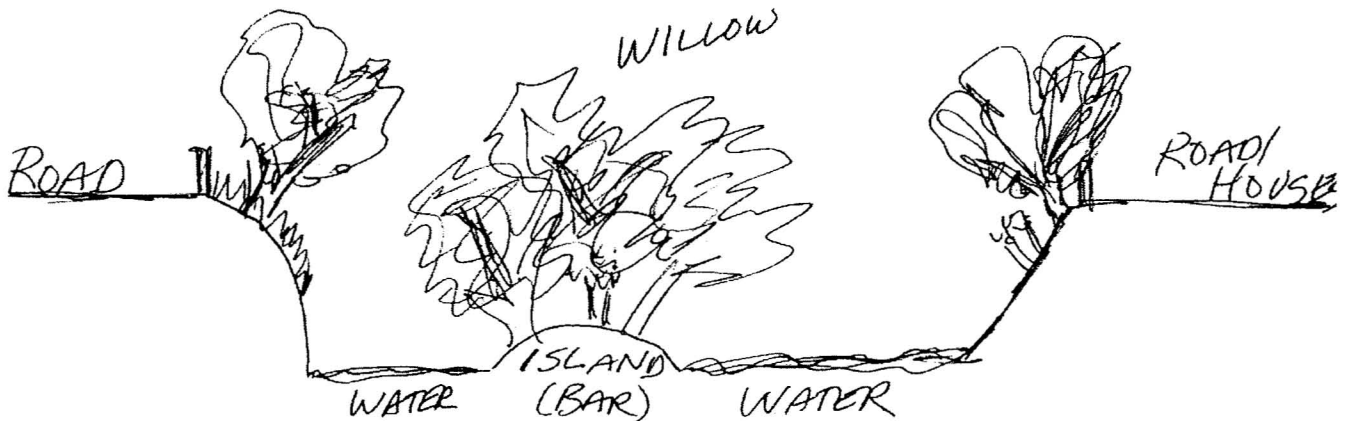
Dominant tree species: *Alnus rubra* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65'/10-65' **feet**
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Downstream end of Rogue River impacted by adjacent roads and commercial ventures on north side and by roads and some houses on south side. Very little woody vegetation alongside roadways.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-1 L

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	2
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	2
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	2
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	2
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pts	
Total Points:		10

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-1 L

FLOOD MANAGEMENT

		Score
6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?		
a. Yes	..... 3 pts	<u>3</u>
b. No	..... 1 pt	
7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?		
a. Yes	..... 3 pts	<u>3</u>
b. No or no flood prone area present	..... 1 pt	
8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?		
a. No	..... 3 pts	<u>1</u>
b. Yes	..... 1 pts	
Total Points:		<u>7</u>

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-1 L

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	3 pts	3
b. No	1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	2
c. Bare ground	1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	1
b. No	1 pts	
Total Points:		6

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-1 L

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>2</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>1</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>3</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>2</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-1 L

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	3
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	1
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	2
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		16

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS:

MEDIUM

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/23/01 **Riparian Code:** R-RO-1 R
On-site: **Off-Site:** **Reach Length:** 10,000'
Investigators: JVS/PF **Hydrologic Basin:** Rogue River

WATER RESOURCE INFORMATION

Water Resource: **Stream/River:** **Width:** 1,000' + feet
 Lake/Pond: **Width:** _____ feet
 Wetland: **Width:** _____ feet
LWI Wetland Code: RO-10, RO-8,
Water present year-round: Yes No
Are salmonids present in the adjacent water resource? Yes No
Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No
Mapped soil series: Yachats very fine sandy loam

Adjacent Land Uses? (Check as many as needed)
Agriculture: **Roads:**
Commercial/Indus.: **Undeveloped:**
Residential: **Forestry:**

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Salix hookeriana</i>	<i>Festuca arundinacea</i>
<i>Alnus rubra</i>	<i>Rubus discolor</i>
<i>Pseudotsuga menziesii</i>	
<i>Umbellularia californica</i>	

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-1 R

Date: 5/23/01 **Investigators:** JVS/PF

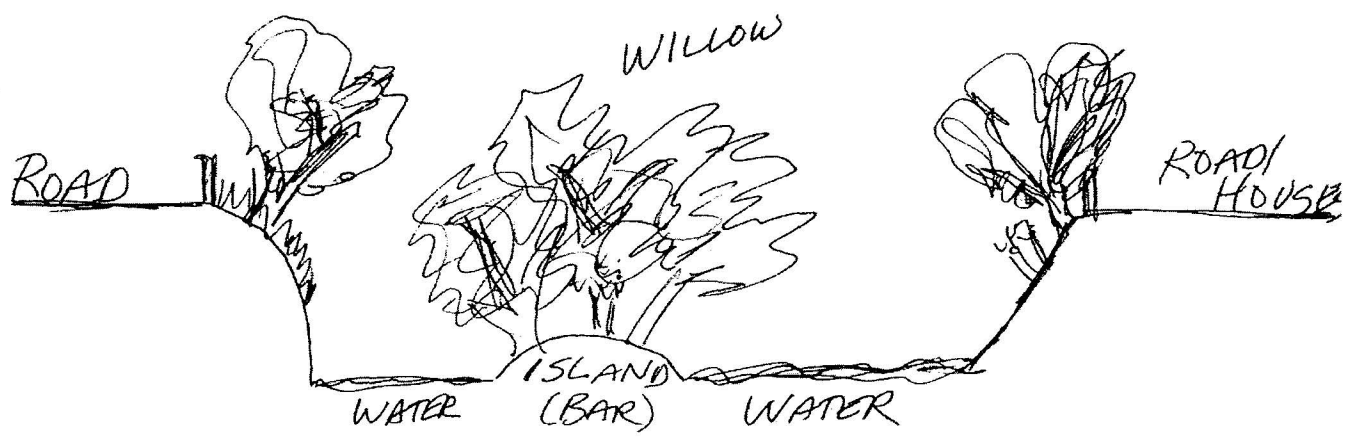
Dominant tree species: Alnus rubra (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65'/20-65' feet
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation Reference site Code

Comments: Downstream end of Rogue River impacted by adjacent roads and commercial ventures on north side and by roads and some houses on south side. Very little woody vegetation alongside roadways.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-1 R

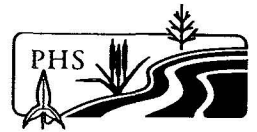
WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	<u>2</u>
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	<u>2</u>
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	<u>2</u>
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	
b. Between 10% and 25%	2 pts	<u>2</u>
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>10</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-1 R

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pts

1

Total Points:

5

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-1 R

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	..... 3 pts	3
b. No	..... 1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	..... 3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	..... 2 pts	2
c. Bare ground	..... 1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	..... 2 pts	1
b. No	..... 1 pts	
Total Points:		6

Function: **High (7-8 pts)** **Medium (5-6 pts)** **Low (3-4 pts)**

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-1 R

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>2</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>1</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>3</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>2</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-1 R

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	3
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	1
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	2
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		16

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

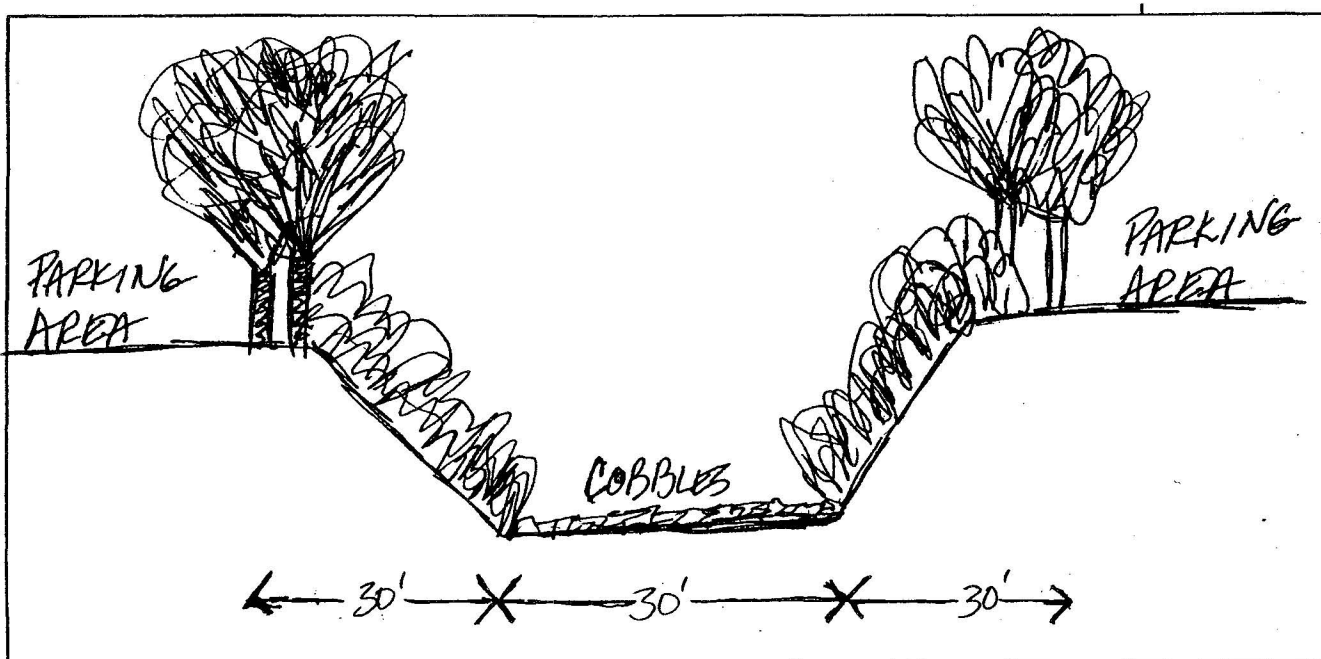
RIPARIAN CODE

R-RO-2

Date: 5/8/01 Investigators: JVS/PF
Dominant tree species: Alnus rubra (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 65'/20-65' feet
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation Reference site Code _____

Comments: Riparian area along Rogue between 101 bridge and Indian Creek. Bridge at Indian Creek is relatively close to mouth of creek - parking lots either side. Some disturbances to vegetation from road. Adjacent flood prone areas present. Within floodplain of Rogue River.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-2

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>2</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>3</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>13</u>

Function: **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-2

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pts

1

Total Points: 7

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-2

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes 3 pts
b. No 1 pt

Score

3

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high 3 pts
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high 2 pts
c. Bare ground 1 pt

3

11. Does woody vegetation hang over the edge of the water?

- a. Yes 2 pts
b. No 1 pt

2

Total Points:

8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-2

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	2
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	1
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-2

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	<u>3</u>
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	<u>2</u>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		<u>17</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-3

Date: 4/24/01 **Investigators:** JVS/PF

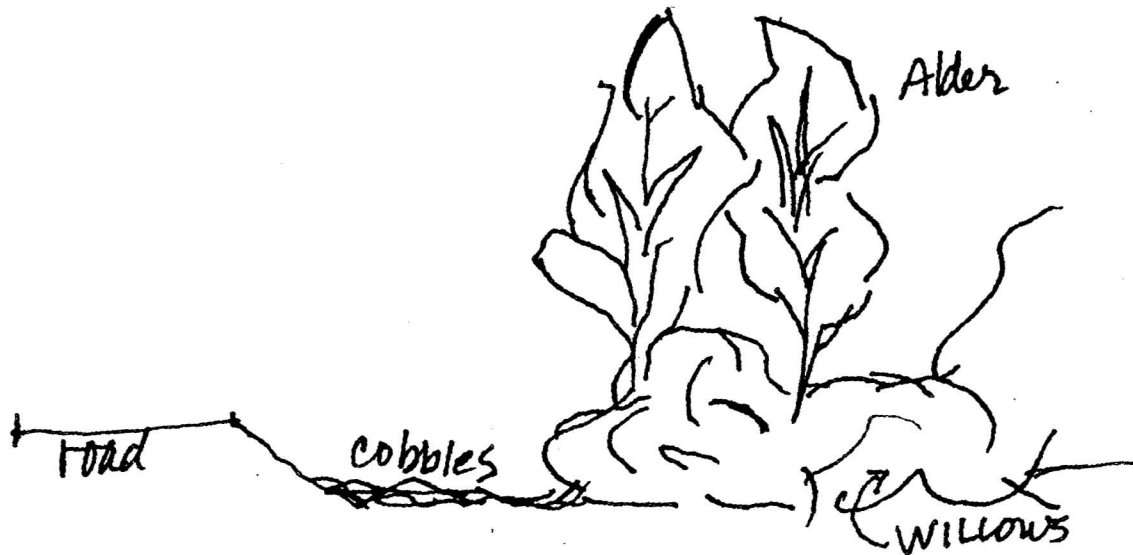
Dominant tree species: *Alnus rubra* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65'/65' **feet**
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Saunders Creek has cobble substrate, relatively unimpacted by human encroachment, though road passes near and several residential bridges. Forested riparian area.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-3

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	2
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	3
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	3
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	
b. Between 10% and 25%	2 pts	3
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pts	
Total Points:		13

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-3

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pts

1

Total Points:

7

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-3

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	3 pts	3
b. No	1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pts	
Total Points:		8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-3

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	3
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	1
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-3

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	
b. No	1 pt	<u>3</u>
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	
b. Between 25% and 75%	2 pts	<u>3</u>
c. Greater than 75%	1 pt	
Total Points:		<u>19</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-4

Date: 5/22/01 **Investigators:** JVS/PF

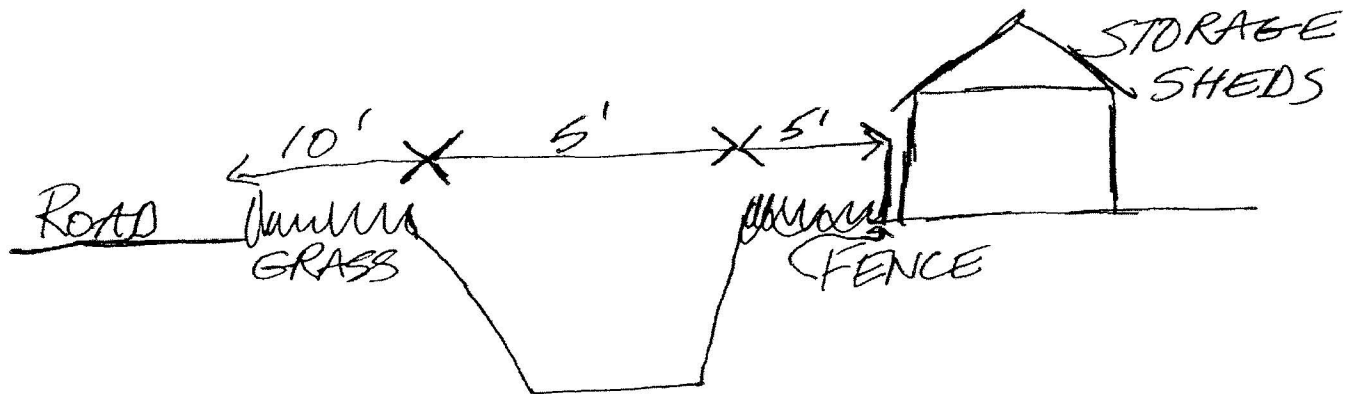
Dominant tree species: Salix hookeriana (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 35'/5-10' feet
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation Reference site Code

Comments: Dean Creek - Heavily impacted by adjacent development. Large section culverted beneath parking lots and roads. Banks dominated by grasses and other herbaceous vegetation. Perennial.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-4

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	3
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	2
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	2
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	1
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pts	
Total Points:		10

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-4

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

Score

- a. Yes 3 pts
- b. No 1 pt

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

1

Total Points: 3

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **LOW**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-4

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

Score

- a. Yes 3 pts
- b. No 1 pt

1

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high 3 pts
- b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high 2 pts
- c. Bare ground 1 pt

2

11. Does woody vegetation hang over the edge of the water?

- a. Yes 2 pts
- b. No 1 pt

1

Total Points:

4

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

LOW

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-4

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>1</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>1</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>1</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-4

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	
b. No	..... 1 pt	<u>3</u>
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	
b. No	..... 1 pt	<u>1</u>
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	<u>1</u>
Total Points:		<u>11</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **LOW**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/22/01 **Riparian Code:** R-RO-5
On-site: **Off-Site:** **Reach Length:** 1500'
Investigators: JVS/PF **Hydrologic Basin:** Rogue River/Dean Creek

WATER RESOURCE INFORMATION

Water Resource: **Stream/River:** **Width:** 4-6' feet
 Lake/Pond: **Width:** _____ feet
 Wetland: **Width:** _____ feet
LWI Wetland Code: RO-11
Water present year-round: Yes No
Are salmonids present in the adjacent water resource? Yes No
Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Hebo silty clay loam; 0-7% slope

Adjacent Land Uses? (Check as many as needed)

- Agriculture:** **Roads:**
Commercial/Indus.: **Undeveloped:**
Residential: **Forestry:**

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Abies grandis</i>	<i>Carex obnupta</i>
<i>Rubus parviflorus</i>	<i>Bellis perennis</i>
<i>Lonicera involucrata</i>	<i>Plantago major</i>
<i>Rubus discolor</i>	<i>Athyrium filix - feminine</i>
<i>Picea sitchensis</i>	<i>Polystichum munitum</i>
<i>Oemleria cerasiformis</i>	<i>Lysichiton americanum</i>
<i>Alnus rubra</i>	

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-5

Date: 5/22/01 **Investigators:** JVS/PF

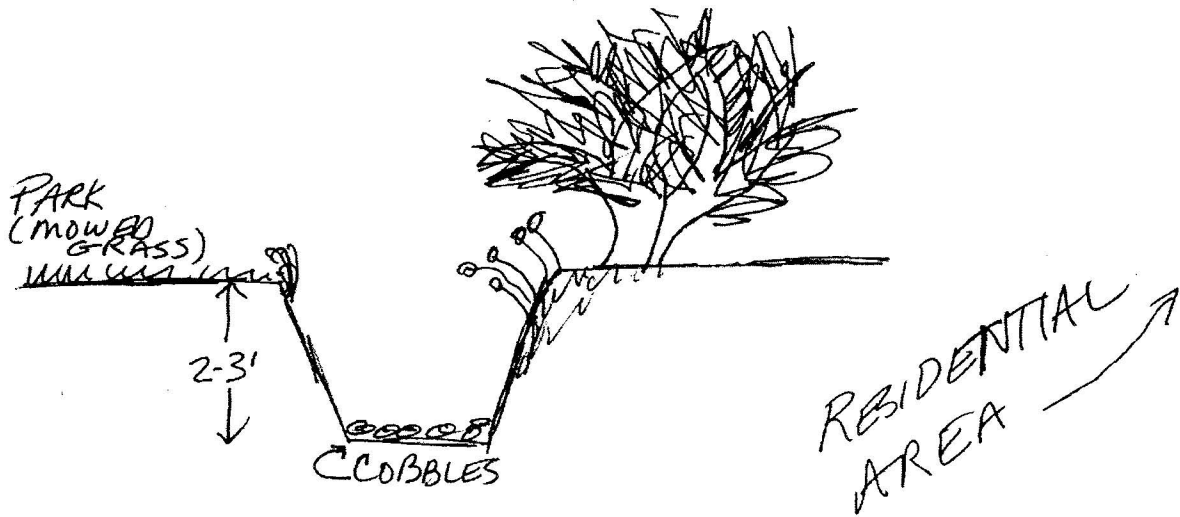
Dominant tree species: *Alnus rubra* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65'/65-20' feet
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation Reference site Code

Comments: Creek along edge of Buffington Park, mowed up to the edge on left side (looking downstream). Right hand side is well-vegetated with a variety of trees, shrubs and native herbaceous species. Extends to Hillcrest Street.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-5

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	2
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	3
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pts	
Total Points:		13

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-5

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

Score

- a. Yes 3 pts
- b. No 1 pt

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

3

Total Points: 5

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-5

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- | | | | | | |
|--------|-------|-------|--|-------|---|
| a. Yes | | 3 pts | \| | Score | 1 |
| b. No | | 1 pt | | | |

10. What is the dominant vegetation layer in the riparian area?

- | | | | | | |
|---|-------|-------|--|-------|---|
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | | 3 pts | \| | Score | 3 |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | ..... | 2 pts | | | |
| c. Bare ground | ..... | 1 pt | | | |

11. Does woody vegetation hang over the edge of the water?

- | | | | | | |
|--------|-------|-------|--|-------|---|
| a. Yes | | 2 pts | \| | Score | 2 |
| b. No | | 1 pts | | | |

Total Points: 6

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-5

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	3
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	1
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	2
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-5

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	<u>3</u>
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	<u>1</u>
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	<u>2</u>
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		<u>17</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/22/01

Riparian Code: R-RO-6

On-site: Off-Site:

Reach Length: 2,800'

Investigators: JVS/PF

Hydrologic Basin: Dean Creek/Rogue River

WATER RESOURCE INFORMATION

Water Resource: Stream/River:
 Lake/Pond:
 Wetland:

Width: 4-8' feet
 Width: _____ feet
 Width: _____ feet

LWI Wetland Code: _____

Water present year-round: Yes No

Are salmonids present in the adjacent water resource? Yes No

Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Cuniff silty clay loam; 0-15%

Adjacent Land Uses? (Check as many as needed)

Agriculture: Roads:
 Commercial/Indus.: Undeveloped:
 Residential: Forestry:

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Umbellularia californica</i>	<i>Polystichum munitum</i>
<i>Alnus rubra</i>	<i>Lysichiton americanum</i>
<i>Picea sitchensis</i>	<i>Equisetum arvense</i>
<i>Sambucus racemosa</i>	<i>Carex deweyana</i>
<i>Rubus parviflorus</i>	<i>Claytonia sibirica</i>
<i>Ribes (gooseberry)</i>	<i>Osmorhiza (sweet cicely)</i>
	<i>Asarum caudatum</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-6

Date: 5/22/01 **Investigators:** JVS/PF

Dominant tree species: *Alnus rubra* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65'/65' **feet**
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Dean Creek east of Buffington Park. Undisturbed adjacent land with forested overstory. Creek about 4-8' wide, possibly multiple channels.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-6

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	3
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	3
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pts	
Total Points:		14

Function: **High** (12-14 pts) **Medium** (8-11 pts) **Low** (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-6

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

3

Total Points: 5

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-6

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- | | | |
|--------|-------|-------|
| a. Yes | ..... | 3 pts |
| b. No | ..... | 1 pt |

Score

3

10. What is the dominant vegetation layer in the riparian area?

- | | | |
|---|-------|-------|
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | ..... | 3 pts |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | ..... | 2 pts |
| c. Bare ground | ..... | 1 pt |

3

11. Does woody vegetation hang over the edge of the water?

- | | | |
|--------|-------|-------|
| a. Yes | ..... | 2 pts |
| b. No | ..... | 1 pt |

2

Total Points:

8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-6

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	3
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	3
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-6

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	<u>3</u>
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	<u>1</u>
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	<u>3</u>
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		<u>21</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION	
Date: <u>5/8/01</u>	Riparian Code: <u>R-RO-7</u>
On-site: <input checked="" type="checkbox"/> Off-Site: <input type="checkbox"/>	Reach Length: <u>800'</u>
Investigators: <u>JVS/PF</u>	Hydrologic Basin: <u>Rogue River</u>

WATER RESOURCE INFORMATION	
Water Resource: Stream/River: <input checked="" type="checkbox"/>	Width: <u>10-40'</u> feet
Lake/Pond: <input type="checkbox"/>	Width: _____ feet
Wetland: <input type="checkbox"/>	Width: _____ feet
LWI Wetland Code: _____	
Water present year-round: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Yachats very fine sandy loam; 0-3% slope & Gaudy-Willanch complex; 0-3% slope

Adjacent Land Uses? (Check as many as needed)

- | | |
|--|--|
| Agriculture: <input type="checkbox"/> | Roads: <input checked="" type="checkbox"/> |
| Commercial/Indus.: <input checked="" type="checkbox"/> | Undeveloped: <input checked="" type="checkbox"/> |
| Residential: <input type="checkbox"/> | Forestry: <input type="checkbox"/> |

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Alnus rubra</i>	<i>Petasites frigidus</i>
<i>Picea sitchensis</i>	<i>Rubus discolor</i>
<i>Umbellularia californica</i>	<i>Polystichum munitum</i>
<i>Acer macrophyllum</i>	<i>Urtica dioica</i>
<i>Acer circinatum</i>	
<i>Sambucus racemosa</i>	
<i>Rubus parviflorus</i>	

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

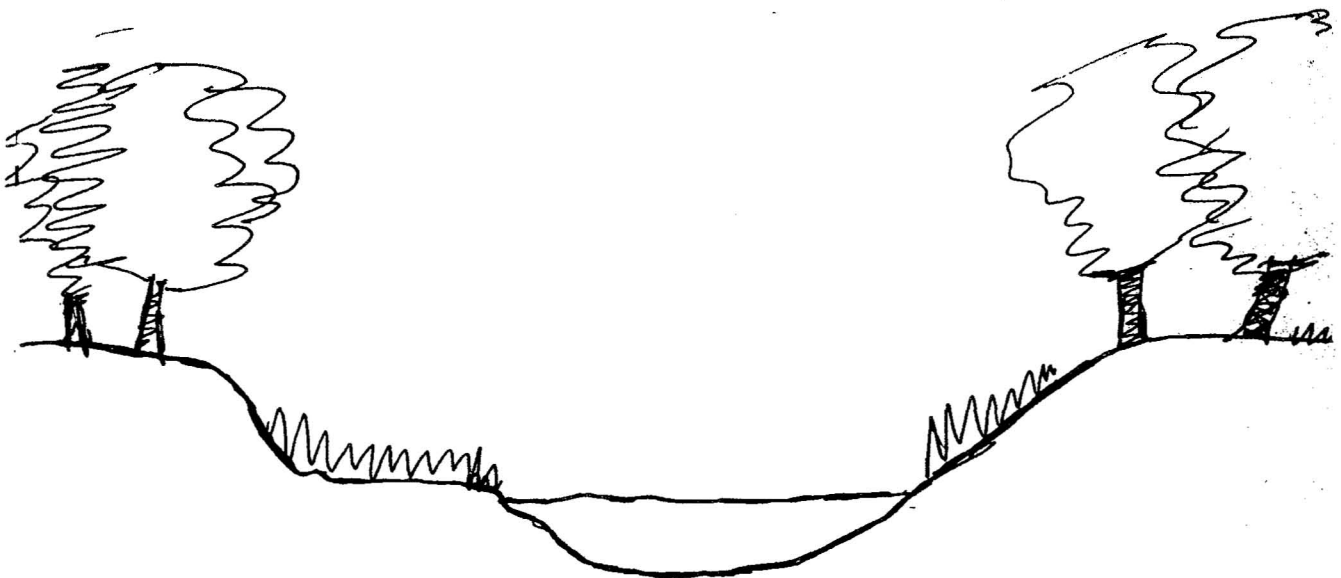
RIPARIAN CODE

R-RO-7

Date: 5/8/01 **Investigators:** JVS/PF
Dominant tree species: *Alnus rubra* (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 65'/65' **feet**
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: "God Wants It Creek" flows under road to Rogue River. Some disturbance in riparian area due to weeds, buildings. Interpretive trail on left side of creek.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-7

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	2
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	3
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pts	
Total Points:		13

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-7

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

1

Total Points: 7

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-7

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	3 pts	3
b. No	1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	3
c. Bare ground	1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
Total Points:		8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RO-7

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>3</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>2</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>3</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RO-7

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	
b. No	1 pt	3
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	1
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	
b. Between 25% and 75%	2 pts	3
c. Greater than 75%	1 pt	
Total Points:		19

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION			
Date:	<u>4/24/01</u>	Riparian Code:	<u>R-RI-8</u>
On-site:	<input checked="" type="checkbox"/>	Off-Site:	<input type="checkbox"/>
Reach Length:			<u>1150'</u>
Investigators:	<u>JVS/PF</u>	Hydrologic Basin:	<u>Riley Creek</u>

WATER RESOURCE INFORMATION			
Water Resource:	Stream/River:	<input checked="" type="checkbox"/>	Width: <u>6-10'</u> feet
	Lake/Pond:	<input type="checkbox"/>	Width: _____ feet
	Wetland:	<input type="checkbox"/>	Width: _____ feet
LWI Wetland Code: _____			
Water present year-round: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Heceta fine sand; 0-3% slope & Ferelo-Gearhart complex; 0-15% slope & Hebo silty clay loam; 0-7% slope

Adjacent Land Uses? (Check as many as needed)

Agriculture: Roads:

Commercial/Indus.: Undeveloped:

Residential: Forestry:

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Salix hookeriana</i>	<i>Cirsium arvense</i>
<i>Baccharis pilularis</i>	<i>Scirpus microcarpus</i>
<i>Rubus parviflorus</i>	<i>Raphanus sativa</i>
<i>Rubus discolor</i>	<i>Convolvulus</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-8

Date: 4/24/01 **Investigators:** JVS/PF

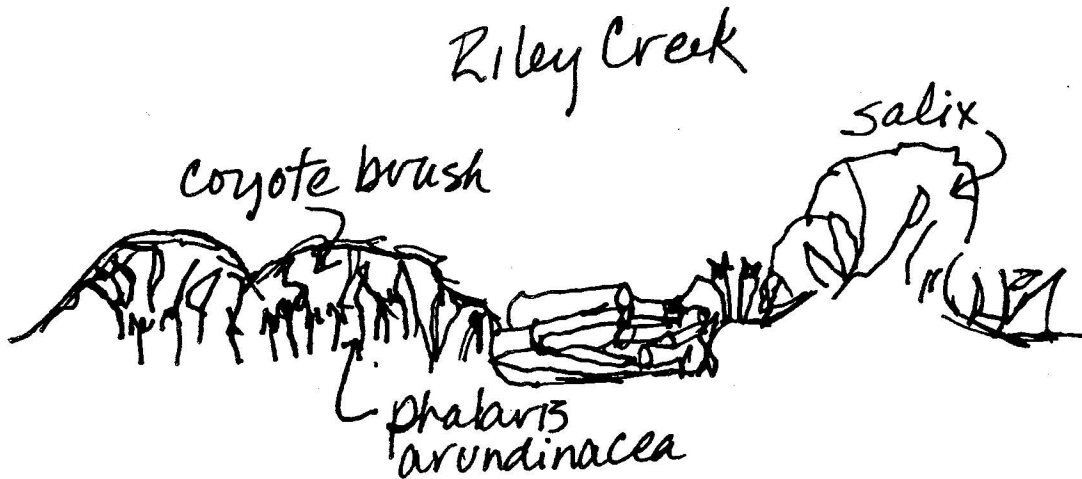
Dominant tree species: Salix (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 35'/10-35' feet
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation Reference site Code

Comments: Disturbed section; flows onto beach-lots of driftwood; mostly herbaceous, with some shrubs. Adjacent to city sewage treatment plant.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-8

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>3</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>3</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>12</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-8

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

3

Total Points:

5

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-8

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	3 pts	3
b. No	1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	2
c. Bare ground	1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	1
b. No	1 pts	
Total Points:		6

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-8

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>2</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>1</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>3</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>3</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-8

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	3
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	1
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	3
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		18

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/8/01 **Riparian Code:** R-RI-9
On-site: **Off-Site:** **Reach Length:** 1200'
Investigators: JVS/PF **Hydrologic Basin:** Riley Creek

WATER RESOURCE INFORMATION

Water Resource: **Stream/River:** **Width:** 10-15' feet
 Lake/Pond: **Width:** _____ feet
 Wetland: **Width:** _____ feet
LWI Wetland Code: _____
Water present year-round: Yes No
Are salmonids present in the adjacent water resource? Yes No
Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No
Mapped soil series: Hebo silty clay loam; 0-7%

Adjacent Land Uses? (Check as many as needed)
Agriculture: **Roads:**
Commercial/Indus.: **Undeveloped:**
Residential: **Forestry:**

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Lonicera involucrata</i>	<i>Bromus sp.</i>
<i>Alnus rubra</i>	<i>Equisetum arvense</i>
<i>Salix</i>	<i>Ranunculus repens</i>
<i>Rubus discolor</i>	<i>Dactylis glomerata</i>
	<i>Festuca arundinacea</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

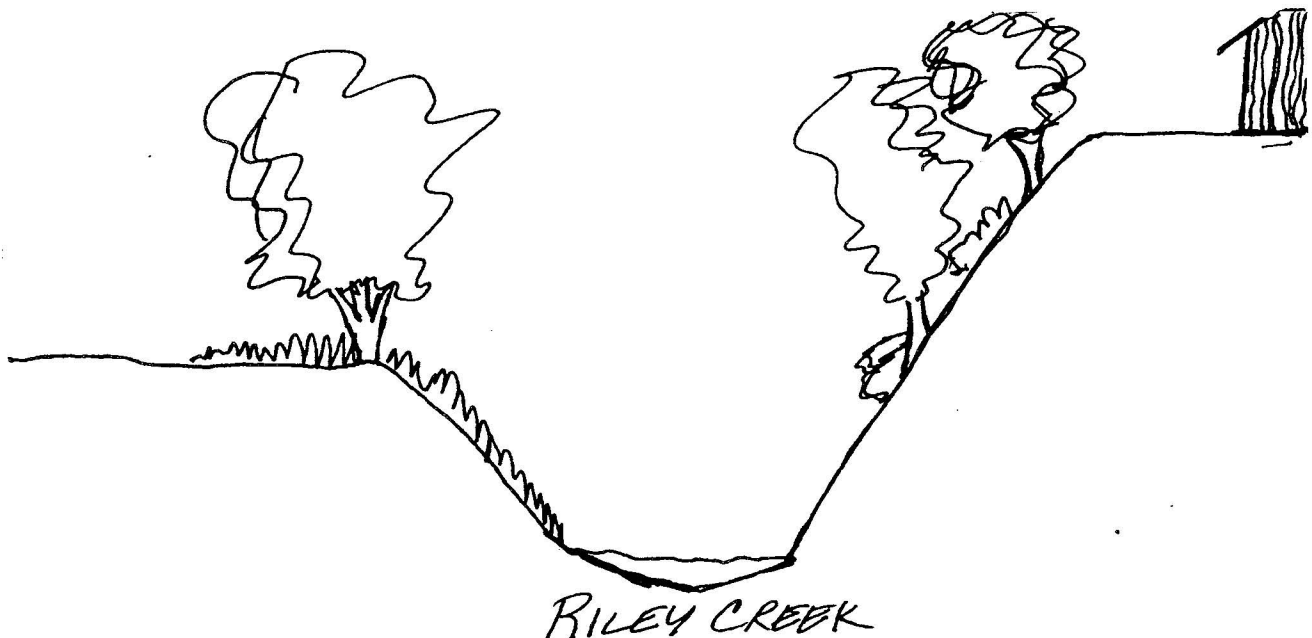
RIPARIAN CODE

R-RI-9

Date: 5/8/01 **Investigators:** JVS/PF
Dominant tree species: *Alnus rubra* (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 65'/10-65' **feet**
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Riley Creek between 6th and 4th Streets, through residential/commercial area.
Steep bank on right side - fill with some development within riparian area. Perennial stream.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-9

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	2
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	2
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	2
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pts	
Total Points:		11

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-9

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pts

1

Total Points: 3

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **LOW**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-9

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	3 pts	3
b. No	1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	3
c. Bare ground	1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pts	
Total Points:		8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-9

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>2</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>2</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>3</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-9

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	<u>3</u>
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	<u>1</u>
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	<u>2</u>
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		<u>17</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION	
Date: <u>4/24/01</u>	Riparian Code: <u>R-RI-10</u>
On-site: <input checked="" type="checkbox"/> Off-Site: <input type="checkbox"/>	Reach Length: <u>1600'</u>
Investigators: <u>JVS/PF</u>	Hydrologic Basin: <u>Riley Creek</u>

WATER RESOURCE INFORMATION	
Water Resource: Stream/River: <input checked="" type="checkbox"/>	Width: <u>8-10'</u> feet
Lake/Pond: <input type="checkbox"/>	Width: _____ feet
Wetland: <input type="checkbox"/>	Width: _____ feet
LWI Wetland Code: _____	
Water present year-round: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Hebo silty clay loam; 0-7% slope

Adjacent Land Uses? (Check as many as needed)

Agriculture: Roads: School:
 Commercial/Indus.: Undeveloped:
 Residential: Forestry:

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Alnus rubra</i>	<i>Symphoricarpos albus</i>
<i>Umbellularia californica</i>	<i>Equisetum arvense</i>
<i>Rubus discolor</i>	<i>Festuca arundinacea</i>
<i>Salix hookeriana</i>	<i>Trifolium repens</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-10

Date: 4/24/01 **Investigators:** JVS/PF

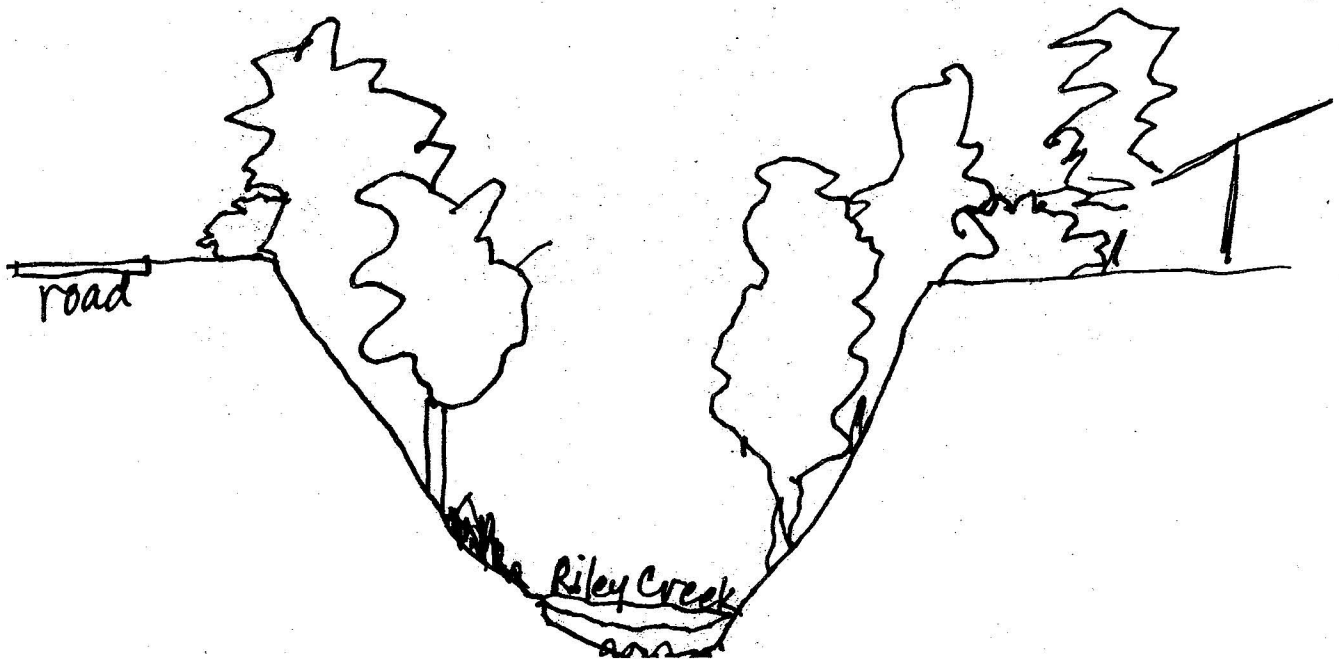
Dominant tree species: *Alnus rubra* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65'/20-65' feet
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation Reference site Code

Comments: Section of Riley Creek between 6th Street to Leith Road fork. Riparian area narrow due to houses or roads, but mostly vegetated. Fairly steep banks. Some shading from trees.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-10

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>1</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>2</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>11</u>

Function: **High** (12-14 pts) **Medium** (8-11 pts) **Low** (5-7 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-10

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

1

Total Points:

3

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

LOW

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-10

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	..... 3 pts	3
b. No	..... 1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	..... 3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	..... 2 pts	3
c. Bare ground	..... 1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	..... 2 pts	2
b. No	..... 1 pts	
Total Points:		8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-10

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>2</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>2</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>3</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-10

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	3
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	1
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	2
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		17

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION			
Date:	<u>4/24/01</u>	Riparian Code:	<u>R-RI-11</u>
On-site:	<input checked="" type="checkbox"/>	Off-Site:	<input type="checkbox"/>
Reach Length:			<u>5200'</u>
Investigators:	<u>JVS/PF</u>	Hydrologic Basin:	<u>Riley Creek</u>

WATER RESOURCE INFORMATION			
Water Resource:	Stream/River:	<input checked="" type="checkbox"/>	Width: <u>5-10'</u> feet
	Lake/Pond:	<input type="checkbox"/>	Width: _____ feet
	Wetland:	<input type="checkbox"/>	Width: _____ feet
LWI Wetland Code: _____			
Water present year-round: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Cunniff silty clay loam; 0-15%

Adjacent Land Uses? (Check as many as needed)

- | | |
|--|--|
| Agriculture: <input type="checkbox"/> | Roads: <input checked="" type="checkbox"/> |
| Commercial/Indus.: <input type="checkbox"/> | Undeveloped: <input checked="" type="checkbox"/> |
| Residential: <input checked="" type="checkbox"/> | Forestry: <input type="checkbox"/> |

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Alnus rubra</i>	<i>Polystichum munitum</i>
<i>Acer macrophyllum</i>	<i>Festuca arundinacea</i>
<i>Sambucus racemosa</i>	<i>Myosotis discolor</i>
<i>Umbellularia californica</i>	<i>Adiantum pedatum</i>
<i>Rhamnus purshiana</i>	<i>Rubus spectabilis</i>
<i>Oemleria cerasiformis</i>	
<i>Rubus parviflorus</i>	

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-11

Date: 4/24/01 **Investigators:** JVS/PF

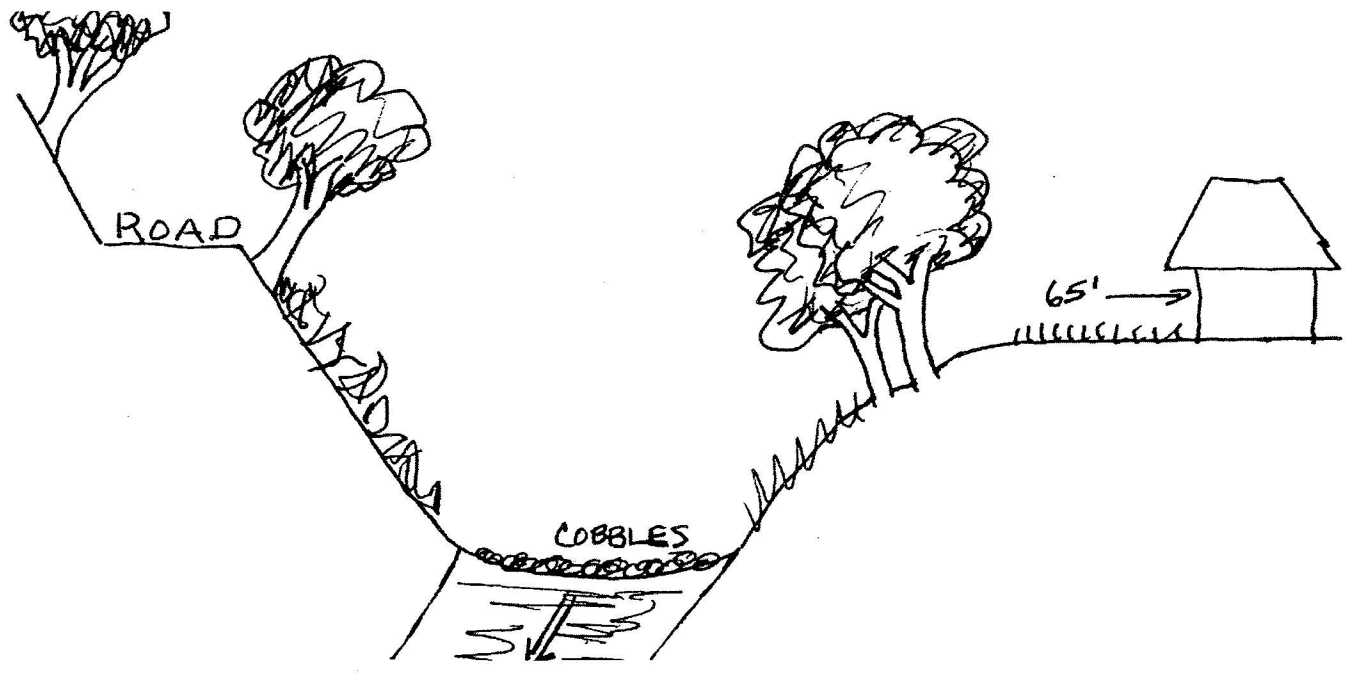
Dominant tree species: *Alnus rubra* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65 / 20-65' feet
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation Reference site Code

Comments: Relatively undisturbed section of creek bordered by unpaved road, but large forested buffer on north side. Cobble substrate, plenty of shade.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-11

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	2
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	3
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	2
b. High, severe, very high	1 pt	
Total Points:		13

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-11

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

3

Total Points: 5

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-11

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- | | | | | | |
|--------|-------|-------|--|-------|---|
| a. Yes | | 3 pts | \| | Score | 3 |
| b. No | | 1 pt | | | |

10. What is the dominant vegetation layer in the riparian area?

- | | | | | | |
|---|-------|-------|--|-------|---|
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | | 3 pts | \| | Score | 3 |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | ..... | 2 pts | | | |
| c. Bare ground | ..... | 1 pt | | | |

11. Does woody vegetation hang over the edge of the water?

- | | | | | | |
|--------|-------|-------|--|-------|---|
| a. Yes | | 2 pts | \| | Score | 2 |
| b. No | | 1 pts | | | |

Total Points: 8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-11

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	..... 3 pts	<u>3</u>
b. 2 layers	..... 2 pts	
c. 1 layer, or unvegetated	..... 1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	..... 3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	..... 2 pts	
c. Bare ground	..... 1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	..... 2 pts	<u>2</u>
b. No	..... 1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	..... 3 pts	<u>1</u>
b. No	..... 1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	..... 3 pts	<u>3</u>
b. Between 10% and 40%	..... 2 pts	
c. Less than 10%	..... 1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-11

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	<u>3</u>
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	<u>1</u>
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	<u>3</u>
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		<u>19</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-12

Date: 5/8/01 **Investigators:** JVS/PF

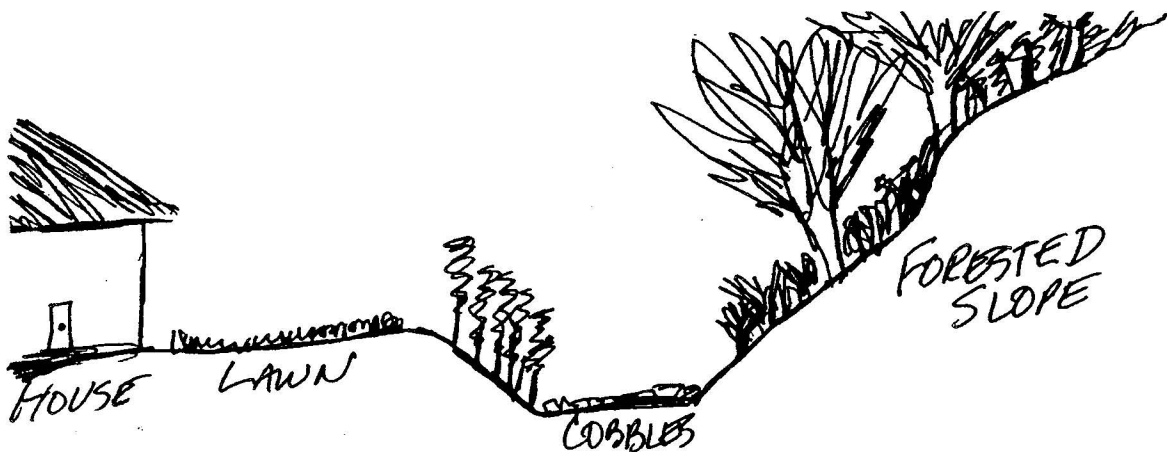
Dominant tree species: *Alnus rubra* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 65'/10-65' feet
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation Reference site Code

Comments: Mowed lawn near stream edge, narrow 40' fringe of tall grass on mowed side of creek. Some disturbance from adjacent residences.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-12

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>3</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>3</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>14</u>

Function: **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-12

FLOOD MANAGEMENT

	Score
<p>6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?</p> <p>a. Yes 3 pts</p> <p>b. No 1 pt</p>	<hr/> <p>3</p>
<p>7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?</p> <p>a. Yes 3 pts</p> <p>b. No or no flood prone area present 1 pt</p>	<hr/> <p>3</p>
<p>8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?</p> <p>a. No 3 pts</p> <p>b. Yes 1 pts</p>	<hr/> <p>3</p>
Total Points:	<hr/> <p>9</p>

Function: **High (8-9 pts)** **Medium (5-7 pts)** **Low (3-4 pts)**

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-12

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes 3 pts
b. No 1 pt

Score

3

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high 3 pts
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high 2 pts
c. Bare ground 1 pt

3

11. Does woody vegetation hang over the edge of the water?

- a. Yes 2 pts
b. No 1 pt

2

Total Points:

8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-RI-12

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	3
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	1
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-RI-12

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	3
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	1
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	3
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		19

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/9/01

Riparian Code: R-CU-13

On-site: Off-Site:

Reach Length: 1600'

Investigators: JVS/PF

Hydrologic Basin: Riley Creek

WATER RESOURCE INFORMATION

Water Resource: Stream/River:
 Lake/Pond:
 Wetland:

Width: 2-3' feet
 Width: _____ feet
 Width: _____ feet

LWI Wetland Code: _____

Water present year-round: Yes No

Are salmonids present in the adjacent water resource? Yes No

Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Hebo silty clay loam; 0-7% slope

Adjacent Land Uses? (Check as many as needed)

Agriculture: Roads:
 Commercial/Indus.: Undeveloped:
 Residential: Forestry:

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Salix sp.</i>	<i>Lysichiton americanum</i>
<i>Alnus rubra</i>	<i>Bromus sp.</i>
<i>Picea sitchensis</i>	<i>Festuca arundinacea</i>
<i>Polygonum japonica</i>	<i>Scirpus microcarpus</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

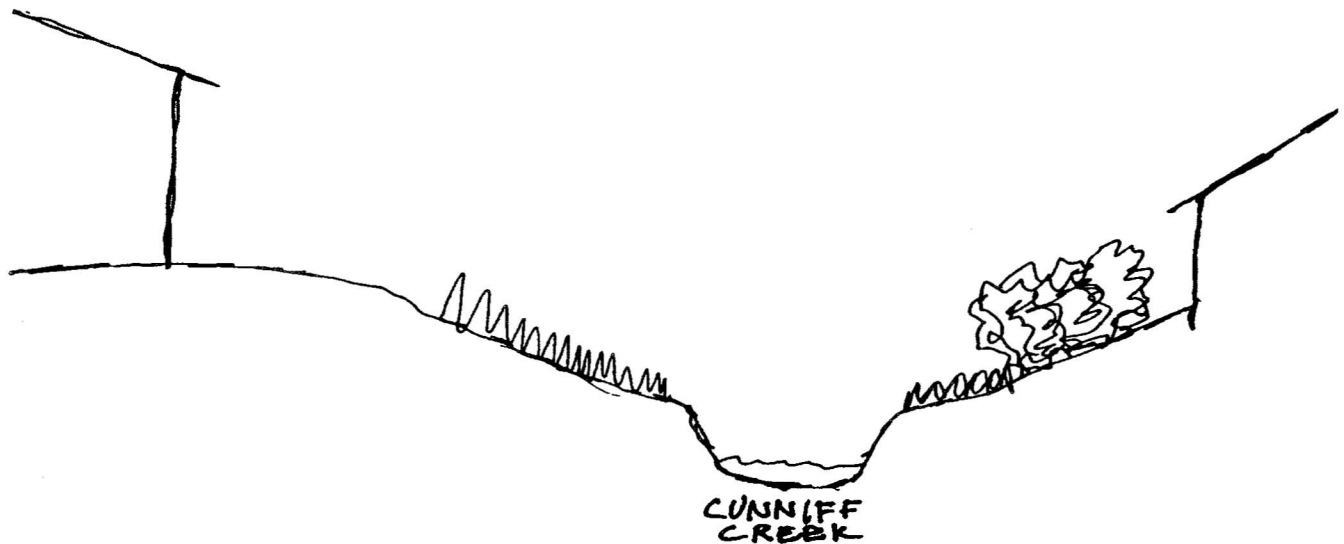
RIPARIAN CODE

R-CU-13

Date: 5/9/01 **Investigators:** JVS/PF
Dominant tree species: *Alnus rubra* (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 65'/10-65' **feet**
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Cunniff Creek drainage between 10th and Berry Road. Narrow channel between lots, several sections culverted, ditched. Narrow riparian area disturbed by houses. Becomes less disturbed in east.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-CU-13

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>3</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>2</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>2</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pt	
Total Points:		<u>11</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **MEDIUM**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-13

FLOOD MANAGEMENT

		Score
6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?		
a. Yes	..... 3 pts	1
b. No	..... 1 pt	
7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?		
a. Yes	..... 3 pts	1
b. No or no flood prone area present	..... 1 pt	
8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?		
a. No	..... 3 pts	1
b. Yes	..... 1 pts	
Total Points:		3

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS: **LOW**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-13

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	..... 3 pts	1
b. No	..... 1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	..... 3 pts	2
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	..... 2 pts	
c. Bare ground	..... 1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	..... 2 pts	1
b. No	..... 1 pt	
Total Points:		4

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **LOW**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-13

WILDLIFE HABITAT

	Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?	
a. More than 2 layers 3 pts	
b. 2 layers 2 pts	<u>2</u>
c. 1 layer, or unvegetated 1 pt	
13. What is the dominant vegetation layer in the riparian area?	
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high 3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high 2 pts	<u>2</u>
c. Bare ground 1 pt	
14. Does woody vegetation hang over the edge of the water?	
a. Yes 2 pts	<u>1</u>
b. No 1 pt	
15. Is large woody debris present within the riparian area?	
a. Yes 3 pts	<u>1</u>
b. No 1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?	
a. Greater than 40% 3 pts	
b. Between 10% and 40% 2 pts	<u>2</u>
c. Less than 10% 1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-13

WILDLIFE HABITAT (continued)

	Score
17. Is surface water present throughout the year?	
a. Yes 3 pts	
b. No 1 pt	1
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?	
a. Yes 3 pts	1
b. No 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?	
a. Less than 25% 3 pts	
b. Between 25% and 75% 2 pts	1
c. Greater than 75% 1 pt	
Total Points:	11

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS:

LOW

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION	
Date: <u>5/23/01</u>	Riparian Code: <u>R-HC-14 L</u>
On-site: <input type="checkbox"/> Off-Site: <input checked="" type="checkbox"/>	Reach Length: <u>12,000'</u>
Investigators: <u>JVS/PF</u>	Hydrologic Basin: <u>Hunter Creek</u>

WATER RESOURCE INFORMATION	
Water Resource: Stream/River: <input checked="" type="checkbox"/>	Width: <u>70-400'</u> feet
Lake/Pond: <input type="checkbox"/>	Width: _____ feet
Wetland: <input type="checkbox"/>	Width: _____ feet
LWI Wetland Code: _____	
Water present year-round: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Yachats very fine sandy loam; 0-3% & Urban land

Adjacent Land Uses? (Check as many as needed)

- | | |
|--|--|
| Agriculture: <input type="checkbox"/> | Roads: <input checked="" type="checkbox"/> |
| Commercial/Indus.: <input checked="" type="checkbox"/> | Undeveloped: <input type="checkbox"/> |
| Residential: <input type="checkbox"/> | Forestry: <input type="checkbox"/> |

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Alnus rubra</i>	<i>Equisetum hyemale</i>
<i>Lonicera involucrata</i>	<i>Equisetum arvense</i>
<i>Salix sp.</i>	<i>Tellima grandiflora</i>
<i>Picea sitchensis</i>	<i>Festuca arundinacea</i>
	<i>Brassica sp.</i>
	<i>Marah oregonus</i>
	<i>Petasites frigidus</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



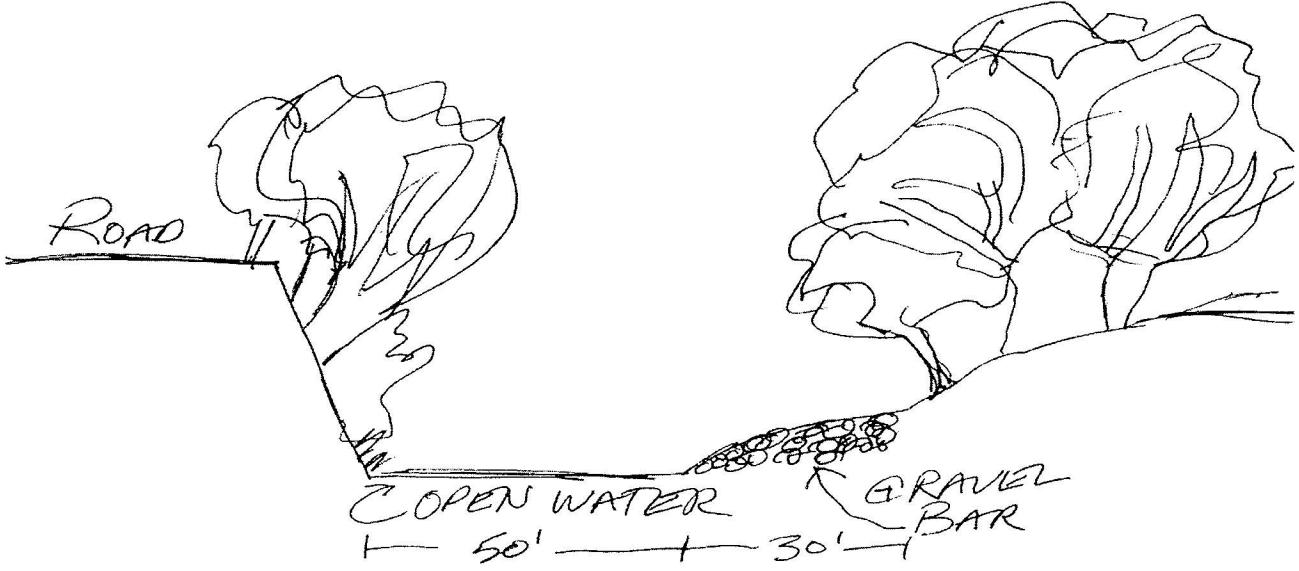
Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 L

Date: 5/23/01 Investigators: JVS/PF
Dominant tree species: Alnus rubra (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 65'/65' feet
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation Reference site Code _____

Comments: Left side bordered by road and industrial/commercial development. Steep bank along majority of riparian area.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-HC-14 L

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>3</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>3</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>14</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 L

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pts

3

Total Points:

9

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-HC-14 L

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes 3 pts
- b. No 1 pt

Score

1

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high 3 pts
- b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high 2 pts
- c. Bare ground 1 pt

3

11. Does woody vegetation hang over the edge of the water?

- a. Yes 2 pts
- b. No 1 pt

2

Total Points:

6

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-HC-14 L

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	3
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	3
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 L

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	3
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	1
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	3
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		21

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION	
Date: <u>5/23/01</u>	Riparian Code: <u>R-HC-14 R</u>
On-site: <input type="checkbox"/> Off-Site: <input checked="" type="checkbox"/>	Reach Length: <u>11,600'</u>
Investigators: <u>JVS/PF</u>	Hydrologic Basin: <u>Hunter Creek</u>

WATER RESOURCE INFORMATION	
Water Resource: Stream/River: <input checked="" type="checkbox"/>	Width: <u>70-400'</u> feet
Lake/Pond: <input type="checkbox"/>	Width: _____ feet
Wetland: <input checked="" type="checkbox"/>	Width: <u>250-500'</u> feet
LWI Wetland Code: <u>HC-1</u>	
Water present year-round: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Gaudy-Willanch complex; 0-3% & Brenner silt loam; 0-3%

Adjacent Land Uses? (Check as many as needed)

Agriculture: Roads:

Commercial/Indus.: Undeveloped:

Residential: Forestry:

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Alnus rubra</i>	<i>Equisetum hyemale</i>
<i>Lonicera involucrata</i>	<i>Equisetum arvense</i>
<i>Salix sp.</i>	<i>Tellima grandiflora</i>
<i>Picea sitchensis</i>	<i>Festuca arundinacea</i>
	<i>Brassica sp.</i>
	<i>Marah oreganus</i>
	<i>Petasites frigidus</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



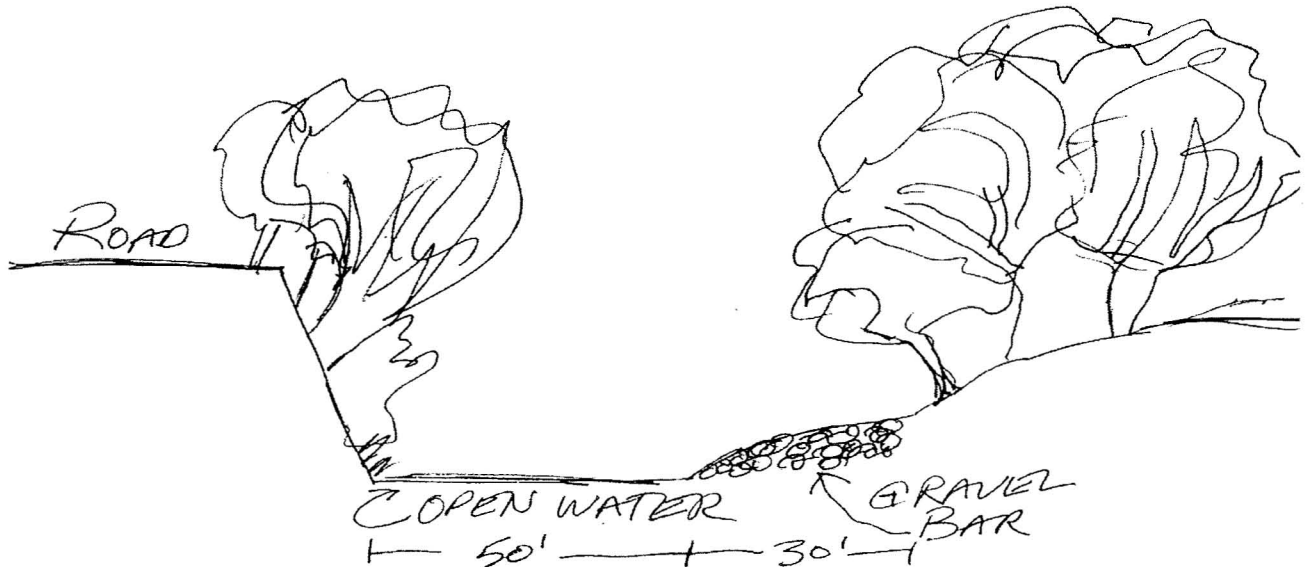
Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 R

Date: 5/23/01 **Investigators:** JVS/PF
Dominant tree species: Alnus rubra (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 65'/65' **feet**
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Mostly undeveloped on right though some residential encroachment upstream.
Gravel bars and flood prone areas.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 R

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>3</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>3</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>14</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 R

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

3

Total Points:

9

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

HIGH

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 R

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- | | | | |
|--------|-------|-------|---|
| a. Yes | | 3 pts | 1 |
| b. No | | 1 pt | |

10. What is the dominant vegetation layer in the riparian area?

- | | | | |
|---|-------|-------|---|
| a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high | | 3 pts | 3 |
| b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high | ..... | 2 pts | |
| c. Bare ground | ..... | 1 pt | |

11. Does woody vegetation hang over the edge of the water?

- | | | | |
|--------|-------|-------|---|
| a. Yes | | 2 pts | 2 |
| b. No | | 1 pt | |

Total Points:

6

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-HC-14 R

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	..... 3 pts	<u>3</u>
b. 2 layers	..... 2 pts	
c. 1 layer, or unvegetated	..... 1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	..... 3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	..... 2 pts	
c. Bare ground	..... 1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	..... 2 pts	<u>2</u>
b. No	..... 1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	..... 3 pts	<u>3</u>
b. No	..... 1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	..... 3 pts	<u>3</u>
b. Between 10% and 40%	..... 2 pts	
c. Less than 10%	..... 1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-14 R

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	3
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	3
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	3
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		23

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

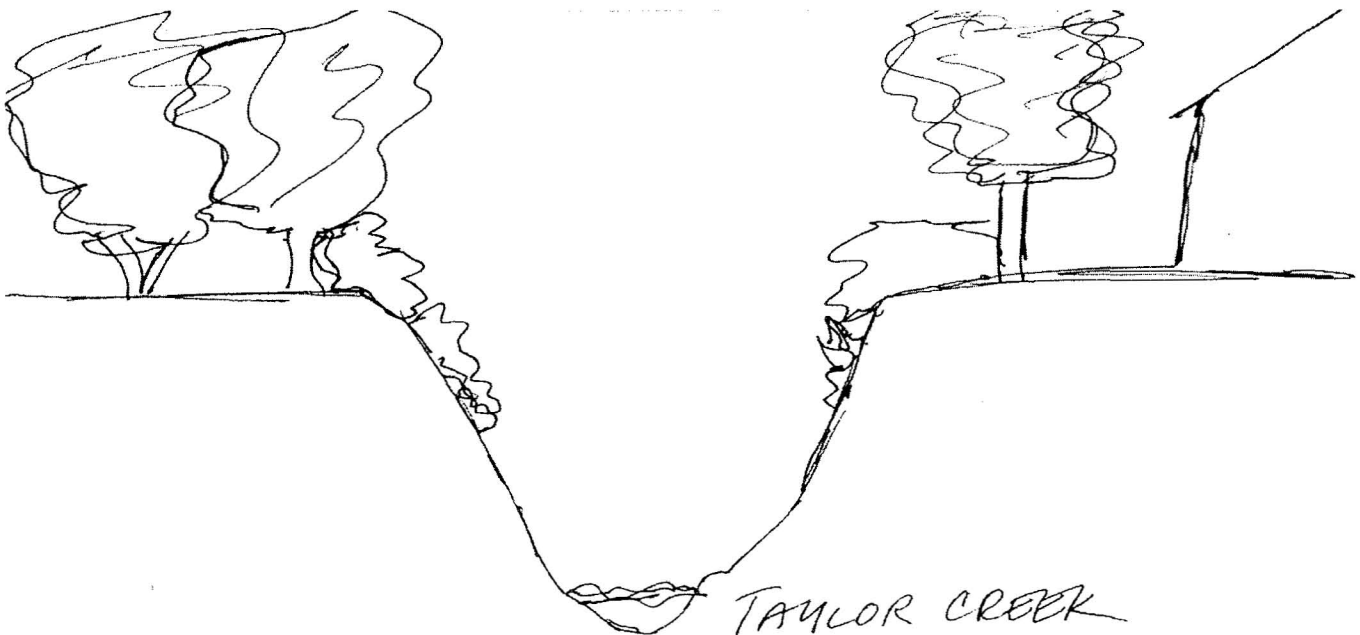
RIPARIAN CODE

R-HC-15

Date: 5/23/01 **Investigators:** JVS/PF
Dominant tree species: *Alnus rubra* (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 65'/10-65' **feet**
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Taylor Creek @ road crossing. Some constriction to riparian area from adjacent residential development and road. Less disturbed to east of Mateer Road.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-15

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	<u>2</u>
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	<u>3</u>
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	<u>3</u>
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	
b. Between 10% and 25%	2 pts	<u>3</u>
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pt	
Total Points:		<u>13</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-HC-15

FLOOD MANAGEMENT

Score

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

1

Total Points:

3

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

LOW

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-HC-15

THERMAL REGULATION

9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?

- a. Yes 3 pts
 b. No 1 pt

Score

3

10. What is the dominant vegetation layer in the riparian area?

- a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high 3 pts
 b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high 2 pts
 c. Bare ground 1 pt

3

11. Does woody vegetation hang over the edge of the water?

- a. Yes 2 pts
 b. No 1 pt

2

Total Points: 8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-HC-15

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	<u>2</u>
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	<u>2</u>
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	<u>3</u>
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-15

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	3
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	1
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	2
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		17

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: MEDIUM

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION	
Date: <u>5/8/01</u>	Riparian Code: <u>R-HC-16</u>
On-site: <input type="checkbox"/> Off-Site: <input checked="" type="checkbox"/>	Reach Length: <u>800'</u>
Investigators: <u>JVS/PF</u>	Hydrologic Basin: <u>Hunter Creek</u>

WATER RESOURCE INFORMATION	
Water Resource: Stream/River: <input checked="" type="checkbox"/>	Width: <u>6-8'</u> feet
Lake/Pond: <input type="checkbox"/>	Width: _____ feet
Wetland: <input type="checkbox"/>	Width: _____ feet
LWI Wetland Code: _____	
Water present year-round: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Are salmonids present in the adjacent water resource? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the water resource listed for temperature on DEQ's 303(d) list: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Whaleshead-Reedsport-Millicoma complex; 30-60% slope & Millicoma-Whaleshead-Reedsport complex; 30-60% slope

Adjacent Land Uses? (Check as many as needed)

- | | |
|---|--|
| Agriculture: <input type="checkbox"/> | Roads: <input checked="" type="checkbox"/> |
| Commercial/Indus.: <input type="checkbox"/> | Undeveloped: <input checked="" type="checkbox"/> |
| Residential: <input type="checkbox"/> | Forestry: <input checked="" type="checkbox"/> |

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Picea sitchensis</i>	<i>Equisetum arvense</i>
<i>Ribes sanguineum</i>	<i>Polystichum munitum</i>
<i>Alnus rubra</i>	<i>Iris douglasiana</i>
<i>Rubus parviflorus</i>	<i>Dactylis glomerata</i>
<i>Salix hookeriana</i>	<i>Myosotis discolor</i>
<i>Baccharis pilularis</i>	<i>Rubus ursinus</i>
<i>Rubus spectabilis</i>	<i>Oenanthe sarmentosa</i>

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-16

Date: 5/8/01 **Investigators:** JVS/PF

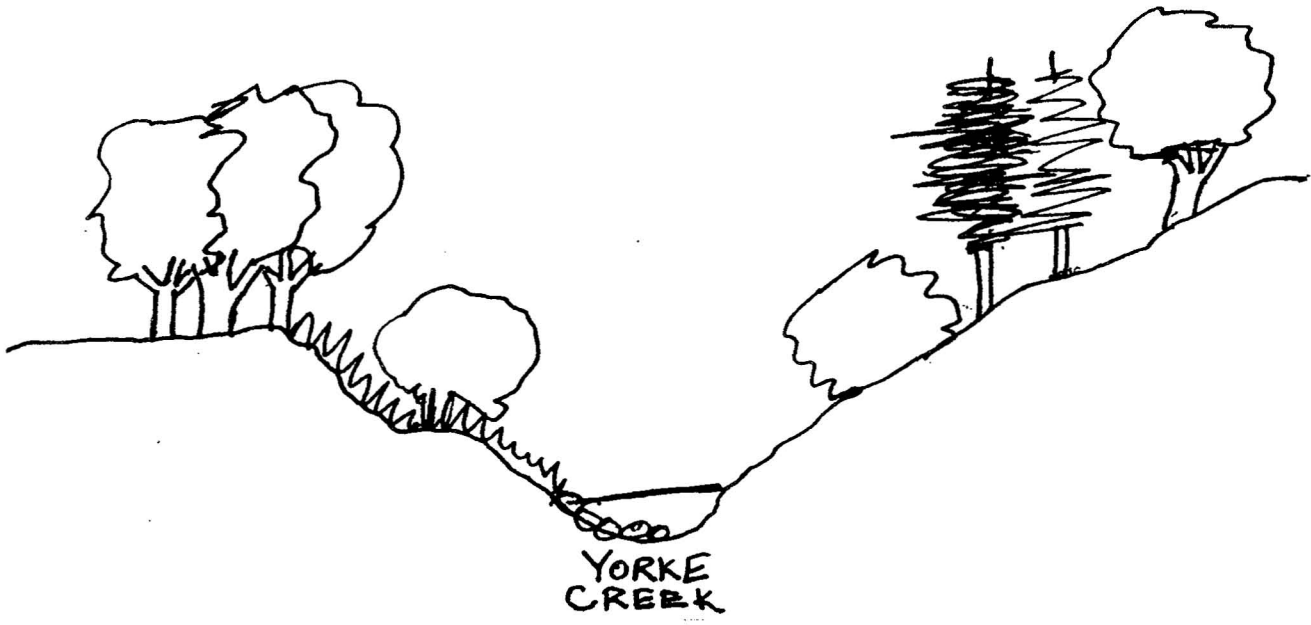
Dominant tree species: *Picea sitchensis* (see other side for list of species)

Potential tree height (PTH)/Width of riparian area : 120'/50-120' **feet**
(Width measured horizontally from edge of water resource)

PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Yorke Creek. Logged over steep terrain with perennial stream. Culverts under old logging roads. Riparian area mostly undisturbed, drains to Hunter Creek. Rock, cobble bottom. Mostly shaded and forested.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-16

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>1</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>3</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pt	
Total Points:		<u>12</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-16

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- | | | |
|--------|-------|-------|
| a. Yes | ..... | 3 pts |
| b. No | ..... | 1 pt |

Score

1

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- | | | |
|--------------------------------------|-------|-------|
| a. Yes | ..... | 3 pts |
| b. No or no flood prone area present | ..... | 1 pt |

1

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- | | | |
|--------|-------|-------|
| a. No | ..... | 3 pts |
| b. Yes | ..... | 1 pts |

3

Total Points:

5

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-16

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	..... 3 pts	3
b. No	..... 1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	..... 3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	..... 2 pts	3
c. Bare ground	..... 1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	..... 2 pts	2
b. No	..... 1 pts	
Total Points:		8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-16

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	3
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	3
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-HC-16

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	3
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	1
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	2
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		20

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **HIGH**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/23/01 **Riparian Code:** R-CU-17 L
On-site: **Off-Site:** **Reach Length:** 600'
Investigators: JVS/PF **Hydrologic Basin:** Cunniff Creek

WATER RESOURCE INFORMATION

Water Resource: **Stream/River:** **Width:** 2-3' feet
 Lake/Pond: **Width:** _____ feet
 Wetland: **Width:** _____ feet
LWI Wetland Code: _____
Water present year-round: Yes No
Are salmonids present in the adjacent water resource? Yes No
Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No
Mapped soil series: Heceta fine sand; 0-3% slope

Adjacent Land Uses? (Check as many as needed)
Agriculture: **Roads:**
Commercial/Indus.: **Undeveloped:**
Residential: **Forestry:**

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Salix hookeriana</i>	
<i>Polygonum japonica</i>	
<i>Lonicera involucrata</i>	

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

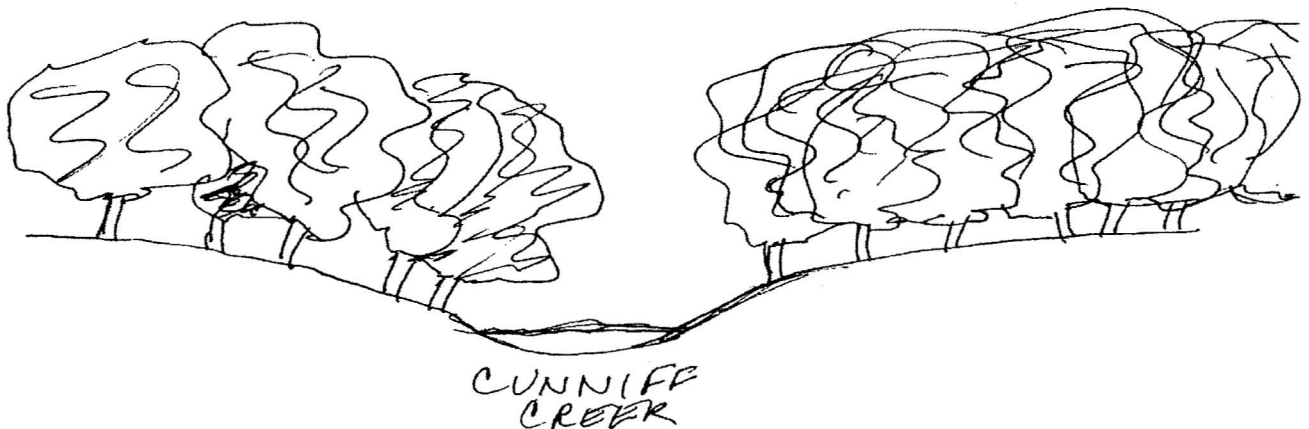
RIPARIAN CODE

R-CU-17 L

Date: 5/23/01 Investigators: JVS/PF
Dominant tree species: Salix hookeriana (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 35'/35' feet
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation Reference site Code _____

Comments: Cunniff Creek between Highway 101 and ocean. Some limits to riparian area by parking lots and buildings, but mostly undisturbed shrub layer.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-17 L

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	<u>3</u>
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	<u>3</u>
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	<u>3</u>
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	
b. Between 10% and 25%	2 pts	<u>3</u>
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pt	
Total Points:		<u>14</u>

Function: High (12-14 pts) Medium (8-11 pts) Low (5-7 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-CU-17 L

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

1

Total Points:

7

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-17 L

THERMAL REGULATION

		Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?		
a. Yes	3 pts	3
b. No	1 pt	
10. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
11. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pts	
Total Points:		8

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-CU-17 L

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	2
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	1
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-17 L

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	..... 3 pts	3
b. No	..... 1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	..... 3 pts	1
b. No	..... 1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	..... 3 pts	2
b. Between 25% and 75%	..... 2 pts	
c. Greater than 75%	..... 1 pt	
Total Points:		17

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Riparian Characterization Form



Gold Beach Riparian Inventory

GENERAL INFORMATION

Date: 5/23/01 **Riparian Code:** R-CU-17 R
On-site: **Off-Site:** **Reach Length:** 600'
Investigators: JVS/PF **Hydrologic Basin:** Cunniff Creek

WATER RESOURCE INFORMATION

Water Resource: **Stream/River:** **Width:** 2-3' feet
 Lake/Pond: **Width:** _____ feet
 Wetland: **Width:** _____ feet
LWI Wetland Code: _____
Water present year-round: Yes No
Are salmonids present in the adjacent water resource? Yes No
Is the water resource listed for temperature on DEQ's 303(d) list: Yes No

Within FEMA-mapped 100-year floodplain: Yes No

Mapped soil series: Heceta fine sand; 0-3% slope

Adjacent Land Uses? (Check as many as needed)

- Agriculture:** **Roads:**
Commercial/Indus.: **Undeveloped:**
Residential: **Forestry:**

Woody vegetation (trees, shrubs, vines >1 meter)	Herbaceous vegetation (include trees, shrubs, vines <1 meter)
<i>Salix hookeriana</i>	
<i>Polygonum japonica</i>	
<i>Lonicera involucrata</i>	

1 meter = 3.2 feet

Average slope in the riparian area: (Question 1)

<10:1 (10%) Between 10:1 (10%) and 5:1 (20%) >5:1 (20%)

Extent of impervious surface within the riparian area. (Question 4)

<10% 10% - 25% >25%

Is the reach constricted by man-made features? (Question 8)

Yes No

Does the orientation of the riparian area allow for shading of the water resource at midday in summer? (Question 9)

Yes No

Dominant vegetation layer within riparian area? (Question 10)

Woody vegetation Herbaceous vegetation Bare ground

Does woody vegetation hang over the edge of the water? (Questions 11 & 14)

Yes No

Large woody debris in riparian area? (Question 15)

Yes No

Percent of water resource bordered by vegetated riparian area at least 30 feet wide? (Question 16)

>40% 10% - 40% <10%

Degree of development or human caused disturbance. (Question 19)

<25% 25% - 75% >75%

How does the NRCS soil survey rank water erosion hazard of the dominant mapped unit in the Riparian Area? (Question 5)

low, slight moderate high, very high, severe

What is the dominant vegetation at the top of bank (if defined) or edge of water resource? (Question 3)

Woody vegetation Herbaceous vegetation Bare ground

Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource? (Question 6)

Yes No

Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

Yes No or no flood prone area present

How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?

More than 2 2 layers 1 layer or unvegetated

Riparian Width Determination



Gold Beach Riparian Inventory

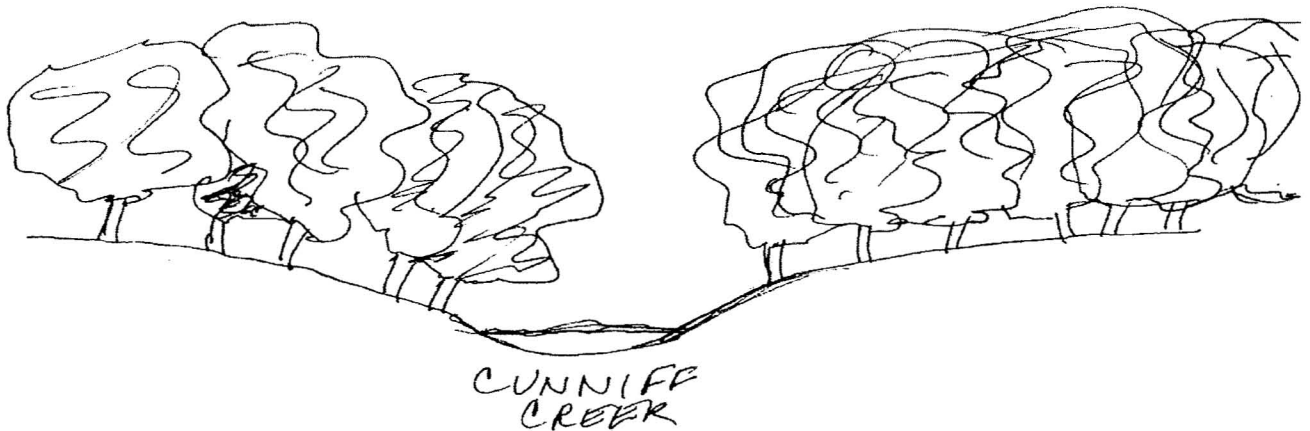
RIPARIAN CODE

R-CU-17 R

Date: 5/23/01 **Investigators:** JVS/PF
Dominant tree species: Salix hookeriana (see other side for list of species)
Potential tree height (PTH)/Width of riparian area : 35/10-35' **feet**
(Width measured horizontally from edge of water resource)
PTH determined by:
On-site vegetation **Reference site** **Code** _____

Comments: Cunniff Creek between Highway 101 and ocean. Some limits to riparian area by parking lots and buildings, but mostly undisturbed shrub layer.

Typical Cross Section:



Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-CU-17 R

WATER QUALITY

		Score
1. What is the average slope in the riparian area?		
a. Less than 10:1 (10%)	3 pts	<u>3</u>
b. Between 10:1 (10%) and 5:1 (20%)	2 pts	
c. Greater than 5:1 (20%)	1 pt	
2. What is the dominant vegetation cover in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
3. What is the dominant vegetation at the top of bank (if defined) or edge of water resource?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	<u>3</u>
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
4. What is the extent of impervious surfaces within the riparian area?		
a. Less than 10%	3 pts	<u>1</u>
b. Between 10% and 25%	2 pts	
c. Greater than 25%	1 pt	
5. How does the Natural Resources Conservation Service (formerly Soil Conservation Service) soil survey rank the water erosion hazard of the dominant mapped unit in the riparian area? Select the highest water erosion hazard description if more than one is listed.		
a. Low, slight, moderate	2 pts	<u>2</u>
b. High, severe, very high	1 pts	
Total Points:		<u>12</u>

Function: **High (12-14 pts)** **Medium (8-11 pts)** **Low (5-7 pts)**

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-CU-17 R

FLOOD MANAGEMENT

6. Are there flood prone areas (adjacent flat areas, depressions, swales, FEMA mapped 100-year floodplain, etc.) beyond the top of bank or edge of the water resource?

- a. Yes 3 pts
- b. No 1 pt

Score

3

7. Is woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high dominant in the flood prone riparian area?

- a. Yes 3 pts
- b. No or no flood prone area present 1 pt

3

8. Is the stream or water resource constricted by man-made features (e.g. channelization, riprap, concrete wall)?

- a. No 3 pts
- b. Yes 1 pt

1

Total Points:

7

Function: High (8-9 pts) Medium (5-7 pts) Low (3-4 pts)

FUNCTION IS:

MEDIUM

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-17 R

THERMAL REGULATION

	Score
9. Does the aspect or orientation of the riparian area allow for shading of water at midday in the summer?	
a. Yes 3 pts	<u>3</u>
b. No 1 pt	
10. What is the dominant vegetation layer in the riparian area?	
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high 3 pts	
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high 2 pts	<u>3</u>
c. Bare ground 1 pt	
11. Does woody vegetation hang over the edge of the water?	
a. Yes 2 pts	<u>2</u>
b. No 1 pts	
Total Points:	<u>8</u>

Function: High (7-8 pts) Medium (5-6 pts) Low (3-4 pts)

FUNCTION IS: **HIGH**

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE

R-CU-17 R

WILDLIFE HABITAT

		Score
12. How many vegetation layers (i.e. canopy, mid-story, groundcover) are present?		
a. More than 2 layers	3 pts	2
b. 2 layers	2 pts	
c. 1 layer, or unvegetated	1 pt	
13. What is the dominant vegetation layer in the riparian area?		
a. Woody vegetation (trees, shrubs, vines) greater than 1 meter (3.2 feet) high	3 pts	3
b. Herbaceous vegetation or woody vegetation less than 1 meter (3.2 feet) high	2 pts	
c. Bare ground	1 pt	
14. Does woody vegetation hang over the edge of the water?		
a. Yes	2 pts	2
b. No	1 pt	
15. Is large woody debris present within the riparian area?		
a. Yes	3 pts	1
b. No	1 pt	
16. What percent of the water resource edge is bordered by a vegetated riparian area at least 30 feet wide?		
a. Greater than 40%	3 pts	3
b. Between 10% and 40%	2 pts	
c. Less than 10%	1 pt	

Questions continued on next page

Riparian Functional Assessment Answer Sheet



Gold Beach Riparian Inventory

RIPARIAN CODE
R-CU-17 R

WILDLIFE HABITAT (continued)

		Score
17. Is surface water present throughout the year?		
a. Yes	3 pts	<u>3</u>
b. No	1 pt	
18. Is there more than one type of water resource (e.g. stream, wetland, lake/pond) within or immediately adjacent to the riparian reach?		
a. Yes	3 pts	<u>1</u>
b. No	1 pt	
19. What is the degree of development or human-caused disturbance (e.g. buildings, impervious surfaces, lawns, agriculture, trash) in the riparian area?		
a. Less than 25%	3 pts	<u>2</u>
b. Between 25% and 75%	2 pts	
c. Greater than 75%	1 pt	
Total Points:		<u>17</u>

Function: High (19-23 pts) Medium (13-18 pts) Low (8-12 pts)

FUNCTION IS: **MEDIUM**

Appendix F

Plant List



APPENDIX F

Plant species observed or expected within the City of Gold Beach Local Wetlands and Riparian Inventory Study Area

Scientific Name	Common Name	R9-Ind.
TREES		
<i>Abies grandis</i>	Grand fir	FACU-
<i>Acer macrophyllum</i>	big leaf maple	FACU
<i>Alnus rubra</i>	red alder	FAC
<i>Arbutus menziesii</i>	Pacific madrone	UPL
<i>Calocedrus decurrens</i>	Incense cedar	UPL
<i>Fraxinus latifolia</i>	Oregon ash	FACW
<i>Myrica californica</i>	Pacific wax-myrtle	FACW
<i>Pseudotsuga menziesii</i>	Douglas Fir	UPL
<i>Pinus contorta</i>	shore pine	FACU-
<i>Populus trichocarpa</i>	black cottonwood	FAC
<i>Salix hookeriana</i>	Hooker willow	FACW-
<i>Sequoia sempervirens</i>	Redwood	NOL
<i>Thuja plicata</i>	western red cedar	FAC
<i>Umbellularia californica</i>	California laurel	FAC-
SHRUBS		
<i>Acer circinatum</i>	vine maple	FAC-
<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	FACU
<i>Baccharis pilularis</i>	chaparral broom	UPL
<i>Berberis aquifolium</i>	tall Oregon grape	UPL
<i>Berberis nervosa</i>	Cascade Oregon grape	UPL
<i>Buddleia davidii</i>	common butterfly bush	NOL
<i>Ceanothus thyrsiflorus</i>	blue stem ceanothus	NOL
<i>Cornus stolonifera</i>	red osier dogwood	FACW
<i>Corylus cornuta</i>	beaked hazel-nut	FACU
<i>Crataegus douglasii</i>	Douglas' hawthorn	FAC
<i>Crataegus monogyna</i>	ornamental hawthorn	FACU+
<i>Cytisus scoparius</i>	Scot's broom	UPL
<i>Gaultheria shallon</i>	salal	FACU
<i>Holodiscus discolor</i>	Ocean-spray	UPL
<i>Ilex aquifolium</i>	English holly	UPL
<i>Lithocarpus densiflorus</i>	tan oak	NOL
<i>Lonicera involucrata</i>	twinberry	FAC+
<i>Oemleria cerasiformis</i>	Indian plum	FACU

Scientific Name	Common Name	R9-Ind.
<i>Philadelphus lewisii</i>	mockorange	UPL
<i>Physocarpus capitatus</i>	Pacific ninebark	FAC
<i>Prunus virginiana</i>	chokecherry	FACU
<i>Rhamnus purshiana</i>	casara buckthorn	FAC-
<i>Rhododendron occidentale</i>	Western azalea	FAC
<i>Rhus diversiloba</i>	poison oak	UPL
<i>Ribes sanguineum</i>	Red-flowering currant	UPL
<i>Rosa eglanteria</i>	sweetbriar rose	FACW
<i>Rosa pisocarpa</i>	clustered rose	FAC
<i>Rubus discolor</i>	Himalayan blackberry	FACU
<i>Rubus laciniatus</i>	evergreen blackberry	FACU+
<i>Rubus leucodermis</i>	Black raspberry	UPL
<i>Rubus parviflorus</i>	western thimbleberry	FAC-
<i>Rubus spectabilis</i>	Salmonberry	FAC+
<i>Rubus ursinus</i>	California blackberry	FACU
<i>Sambucus racemosa</i>	red elderberry	FACU
<i>Spiraea douglasii</i>	Douglas' spiraea	FACW
<i>Symphoricarpos albus</i>	snowberry	FACU
GRAMINOIDS		
<i>Agrostis exarata</i>	spike bentgrass	FACW
<i>Agrostis stolonifera</i>	spreading bentgrass	FAC
<i>Agrostis tenuis</i>	colonial bentgrass	FAC
<i>Aira caryophylla</i>	Silver hairgrass	UPL
<i>Alopecurus geniculatus</i>	water foxtail	OBL
<i>Alopecurus pratensis</i>	meadow foxtail	FACW
<i>Ammophila arenaria</i>	European beachgrass	FACU
<i>Anthoxanthum odoratum</i>	sweet vernal grass	FACU
<i>Avena fatua</i>	wild oats	UPL
<i>Bromus brizaeformis</i>	Rattlesnake grass	NOL
<i>Bromus carinatus</i>	brome	UPL
<i>Bromus mollis</i>	soft brome	UPL
<i>Bromus rigidus</i>	ripgut brome	UPL
<i>Bromus tectorum</i>	cheatgrass	UPL
<i>Carex densa</i>	dense sedge	OBL
<i>Carex deweyana</i>	short-scale sedge	FACU
<i>Carex feta</i>	green-sheath sedge	FACW
<i>Carex lanuginosa</i>	wooly sedge	OBL
<i>Carex leporina</i>	hare's foot sedge	FACW

Scientific Name	Common Name	R9-Ind.
<i>Carex lyngbyei</i>	Lyngbye's sedge	OBL
<i>Carex obnupta</i>	slough sedge	OBL
<i>Carex pachystachya</i>	thick-head sedge	FAC
<i>Carex praticola</i>	meadow sedge	FACW
<i>Carex X stipata</i>	stalk-grain sedge	OBL
<i>Carex unilateralis</i>	one-sided sedge	FACW
<i>Cynosurus cristatus</i>	crested dogtail	UPL
<i>Cynosurus echinatus</i>	hedghegog dogtail	UPL
<i>Cyperus sp.</i>	flatsedge	FACW
<i>Dactylis glomerata</i>	orchard grass	FACU
<i>Danthonia californica</i>	California oatgrass	FACU
<i>Deschampsia cespitosa</i>	tufted hairgrass	FACW
<i>Echinochloa crus-galli</i>	large barnyard grass	FACW
<i>Eleocharis acicularis</i>	needle spikerush	OBL
<i>Eleocharis ovata</i>	ovate spikerush	OBL
<i>Eleocharis palustris</i>	common spikerush	OBL
<i>Elymus glaucus</i>	blue wild-rye	FACU
<i>Festuca arundinacea</i>	Kentucky fescue	FAC-
<i>Festuca megalura</i>	foxtail fescue	UPL
<i>Festuca rubra</i>	red fescue	FAC
<i>Glyceria elata</i>	tall manna grass	FACW+
<i>Glyceria occidentalis</i>	northwestern manna grass	OBL
<i>Holcus lanatus</i>	common velvet grass	FAC
<i>Hordeum brachyantherum</i>	meadow barley	FACW-
<i>Hordeum jubatum</i>	Foxtail barley	FAC
<i>Juncus acuminatus</i>	tapered rush	OBL
<i>Juncus balticus</i>	Baltic rush	FACW+
<i>Juncus bolanderi</i>	Bolander's rush	OBL
<i>Juncus bufonius</i>	toad rush	FACW
<i>Juncus effusus</i>	soft rush	FACW
<i>Juncus ensifolius</i>	three-stamen rush	FACW
<i>Juncus patens</i>	Spreading rush	FACW-
<i>Juncus tenuis</i>	slender rush	FACW-
<i>Lolium multiflorum</i>	Italian ryegrass	UPL
<i>Lolium perenne</i>	Perennial ryegrass	FACU
<i>Luzula campestris</i>	field woodrush	FACU
<i>Panicum capillare</i>	witchgrass	FACU+
<i>Paspalum distichum</i>	knotgrass	FACW

Scientific Name	Common Name	R9-Ind.
<i>Phalaris arundinacea</i>	reed canary grass	FACW
<i>Poa annua</i>	annual bluegrass	FAC
<i>Poa compressa</i>	Canada bluegrass	FACU+
<i>Poa pratensis</i>	Kentucky bluegrass	FAC
<i>Poa trivialis</i>	rough bluegrass	FACW
<i>Polypogon monspeliensis</i>	rabbit's foot	FACW
<i>Scirpus americanus</i>	olney's bulrush	OBL
<i>Scirpus microcarpus</i>	small-fruit bulrush	OBL
<i>Scirpus validus</i>	soft-term bulrush	OBL
<i>Typha latifolia</i>	broad-leaf cattail	OBL
<i>Vulpia myuros</i>	rat-tail fescue	FAC
FORBS		
<i>Achillea millefolium</i>	yarrow	FACU
<i>Alisma gramineum</i>	Narrow-leaf water plantain	OBL
<i>Alisma plantago-aquatica</i>	Broadleaved water plantain	OBL
<i>Allium amplexans</i>	Slim-leaf onion	NOL
<i>Allium vineale</i>	garlic	NOL
<i>Anagallis arvensis</i>	scarlet pimpernel	FAC
<i>Anaphalis margaritacea</i>	pearly everlasting	UPL
<i>Anthemis cotula</i>	Mayweed chamomile	FACU
<i>Aster chilensis ssp. hallii</i>	Hall's aster	FAC
<i>Athyrium filix-femina</i>	subarctic lady fern	FAC
<i>Bellis perennis</i>	English daisy	UPL
<i>Bidens frondosa</i>	devil's beggar tick	FACW+
<i>Boisduvalia densiflora</i>	Dense spike-primrose	FACW-
<i>Brassica campestris</i>	field mustard	UPL
<i>Brodiaea hyacinthina</i>	Hyacinth brodiaea	NOL
<i>Cakile maritima</i>	European searocket	FACU
<i>Callitriche stagnalis</i>	water starwort	OBL
<i>Camassia quamash</i>	common camas	FACW
<i>Camassia leichtlinii var. leichtlinii</i>	Leichtlin's camas	FACW-
<i>Cardamine oligosperma</i>	few-seed bittercress	FAC
<i>Cardamine pulcherrima</i>	Slender toothwort	UPL
<i>Centaurium umbellatum</i>	common centaury	FAC
<i>Centranthus ruber</i>	Jupiter's beard	NOL
<i>Cerastium vulgatum</i>	mouse-ear chickweed	FACU
<i>Chrysanthemum leucanthemum</i>	oxeye daisy	UPL
<i>Cichorium intybus</i>	chickory	UPL

Scientific Name	Common Name	R9-Ind.
<i>Cicuta douglasii</i>	Western water hemlock	OBL
<i>Circaea alpina</i>	enchanters nightshade	FAC+
<i>Cirsium arvense</i>	Canada thistle	FACU+
<i>Cirsium vulgare</i>	bull thistle	FACU
<i>Cicuta maculata</i>	spotted water hemlock	NI
<i>Claytonia sibirica</i>	Siberian spring beauty	FAC
<i>Conium maculatum</i>	poison hemlock	FAC+
<i>Convolvulus arvense</i>	field morning-glory	UPL
<i>Cotula coronopifolia</i>	Brassbuttons	FACW+
<i>Crepis setosa</i>	hawksbeard	UPL
<i>Cuscuta sp.</i>	Field dodder	UPL
<i>Daucus carota</i>	Queen Anne's lace	UPL
<i>Digitalis purpurea</i>	foxglove	FACU
<i>Dipsacus sylvestris</i>	teasel	FAC
<i>Disporum hookerii</i>	Hooker fairy-bell	UPL
<i>Epilobium angustifolium</i>	fireweed	FACU+
<i>Epilobium watsonii</i> [= <i>E. ciliatum</i>]	Watson's willow-herb	FACW-
<i>Equisetum arvense</i>	field horsetail	FAC
<i>Equisetum hyemale</i>	Rough horsetail	FACW
<i>Erodium cicutarium</i>	Storks-bill	UPL
<i>Fragaria virginiana</i>	Virginia strawberry	UPL
<i>Galium aparine</i>	catchweed bedstraw	FACU
<i>Geranium carolinianum</i>	Carolina geranium	UPL
<i>Geranium dissectum</i>	Cut leaf geranium	UPL
<i>Geranium molle</i>	doves-foot geranium	UPL
<i>Geum macrophyllum</i>	Large-leaved avens	FACW-
<i>Gnaphalium palustre</i>	western marsh cudweed	FAC+
<i>Grindelia integrifolia</i>	Willamette Valley gumweed	FACW
<i>Gypsophila paniculata</i>	baby's breath	NOL
<i>Hedera helix</i>	English ivy	UPL
<i>Hydrocotyle ranunculoides</i>	floating penny-wort	OBL
<i>Hypericum perforatum</i>	common St. John's wort	UPL
<i>Hypochaeris radicata</i>	hairy cats-ear	UPL
<i>Iris douglasiana</i>	Douglas's iris	NOL
<i>Lamium purpureum</i>	red dead nettle	UPL
<i>Lactuca serriola</i>	prickly lettuce	FACU
<i>Lasthenia glaberrima</i>	smooth goldfields	OBL
<i>Lathyrus aphaca</i>	Yellow vetchling	UPL

Scientific Name	Common Name	R9-Ind.
<i>Lathyrus latifolius</i>	Everlasting peavine	UPL
<i>Lathyrus sphaericus</i>	Grass peavine	UPL
<i>Lemna minor</i>	Duckweed	OBL
<i>Leontodon nudicaulis</i>	hairy hawkbit	UPL
<i>Lilaeopsis occidentalis</i>	Western lilaeopsis	OBL
<i>Linum angustifolium</i>	Narrow-leaved flax	UPL
<i>Lotus corniculatus</i>	birds-foot trefoil	FAC
<i>Lotus formosissimus</i>	seaside lotus	FACW+
<i>Lotus purshiana</i>	Spanish-clover	UPL
<i>Lupinus bicolor</i>	Two-color Lupine	UPL
<i>Lupinus sp.</i>	Lupine	FAC-->UPL
<i>Lythrum hyssopifolia</i>	hyssop loosestrife	OBL
<i>Lythrum portula</i>	spatula-leaf loosestrife	NI
<i>Madia sativa</i>	tarweed	UPL
<i>Marah oreganus</i>	Oregon bigroot	UPL
<i>Matricaria matricarioides</i>	pineapple weed	FACU
<i>Melilotus alba</i>	white sweet-clover	FACU
<i>Mentha arvensis</i>	field mint	FACW-
<i>Mentha pulegium</i>	pennyroyal	OBL
<i>Montia linearis</i>	line-leaved montia	NOL
<i>Myosotis discolor</i>	yellow and blue forget- me- not	FACW
<i>Oenanthe sarmentosa</i>	water-parsley	OBL
<i>Osmorhiza chilensis</i>	Mountain sweet-cicely	NOL
<i>Oxalis oregana</i>	Oregon oxalis	UPL
<i>Parentucellia viscosa</i>	yellow parentucellia	FAC-
<i>Petasites frigidus</i>	arctic sweet coltsfoot	FACW-
<i>Plantago lanceolata</i>	English plantain	FAC
<i>Plantago major</i>	common plantain	FACU+
<i>Polygonum aviculare</i>	prostrate knotweed	FACW-
<i>Polygonum hydropiperoides</i>	Swamp smartweed	OBL
<i>Polygonum persicaria</i>	Ladysthumb	FACW
<i>Polystichum munitum</i>	sword fern	FACU
<i>Potamogeton natans</i>	floating pondweed	OBL
<i>Potentilla anserina</i>	silverweed	OBL
<i>Prunella vulgaris</i>	heal-all	FACU+
<i>Pteridium aquilinum</i>	bracken fern	FACU
<i>Ranunculus acris</i>	tall buttercup	FACW-
<i>Ranunculus muricatus</i>	spiny-fruit buttercup	FACW

Scientific Name	Common Name	R9-Ind.
<i>Ranunculus occidentalis</i>	western buttercup	FAC
<i>Ranunculus orthorhynchus</i>	straight beak buttercup	FACW
<i>Ranunculus repens</i>	creeping buttercup	FACW
<i>Ranunculus sceleratus</i>	celery-leaf buttercup	OBL
<i>Ranunculus uncinatus</i>	Little buttercup	FAC-
<i>Raphanus sativus</i>	Radish	NI
<i>Rorippa curvisiliqua</i>	Curve-pod yellowcress	OBL
<i>Rorippa nasturtium-aquatica</i>	Watercress	OBL
<i>Rumex acetosella</i>	sour dock	FACU+
<i>Rumex crispus</i>	curly dock	FAC+
<i>Rumex salicifolius</i>	willow-leaved dock	FACW
<i>Sanicula crassicaulis</i>	Pacific sanicle	UPL
<i>Scrophularia californica</i>	California figwort	FACW-
<i>Senecio jacobaea</i>	Tansy ragwort	FACU
<i>Senecio vulgaris</i>	Common groundsel	FACU
<i>Silene gallica</i>	Small-flowered catchfly	NOL
<i>Sisyrinchium californicum</i>	Golden-eyed grass	FACW+
<i>Sisyrinchium idahoense</i>	Idaho blue-eyed grass	FACW
<i>Smilacina racemosa</i>	Feather false-solomon's seal	FAC-
<i>Smilacina stellata</i>	Starry false-solomon's seal	FAC-
<i>Solanum dulcamara</i>	climbing nightshade	FAC+
<i>Sonchus asper</i>	prickly sowthistle	FAC-
<i>Stachy's cooleyae</i>	Cooley's hedgenettle	FACW
<i>Stellaria media</i>	common chickweed	FACU
<i>Taraxacum officinale</i>	common dandelion	FACU
<i>Tellima grandiflora</i>	fringecup	UPL
<i>Thalictrum polycarpum</i>	tall western meadow-rue	UPL
<i>Tolmiea menziesii</i>	piggy-back plant	FAC
<i>Trifolium dubium</i>	hop clover	UPL
<i>Trifolium pratense</i>	red clover	FACU
<i>Trifolium repens</i>	white clover	FAC
<i>Trifolium subterraneum</i>	subterranean clover	-NOL-
<i>Trifolium wormskioldii</i>	cow's clover	FACW+
<i>Trillium ovatum</i>	western trillium	NI
<i>Urtica dioica</i>	stinging nettle	FAC+
<i>Verbascum blatteria</i>	Moth-mullein	UPL
<i>Verbascum thapsus</i>	Mullein	UPL
<i>Veronica americana</i>	American speedwell	OBL

Scientific Name	Common Name	R9-Ind.
<i>Veronica scutellata</i>	marsh speedwell	OBL
<i>Vicia cracca</i>	Bird vetch	UPL
<i>Vicia hirsuta</i>	Tiny vetch	UPL
<i>Vicia sativa</i>	Common vetch	UPL
<i>Vicia tetrasperma</i>	Slender vetch	UPL
<i>Xanthium strumarium</i>	rough cockle-bur	FAC

Appendix G

Draft Natural Resource Ordinance



SECTION X.XX SIGNIFICANT NATURAL RESOURCES OVERLAY ZONE

I. PURPOSE

The Significant Natural Resources Overlay Zone is intended to provide protection for identified significant natural resources within the City of Gold Beach as designated under Statewide Planning Goal 5 and Goal 17. For the purpose of this overlay zone, significant natural resources are designated as Significant Wetlands and Riparian Corridors under Goal 5, and Major Marshes and Riparian Vegetation under Goal 17. These resources have been inventoried within the City of Gold Beach according to procedures, standards and definitions established under Goal 5 and Goal 17 and are identified on the Significant Natural Resources Map as adopted in the Comprehensive Plan.

The Significant Natural Resources Overlay Zone is intended to ensure reasonable economic use of property while protecting valuable natural resources within the City of Gold Beach's Urban Growth Boundary. This ordinance establishes clear and objective standards to protect these resources.

Significant wetlands and riparian areas provide valuable fish and wildlife habitat, including habitat for anadromous salmonids; improve water quality by regulating stream temperatures, trapping sediment, and stabilizing streambanks and shorelines; provide hydrologic control of floodwaters; and provide educational and recreational opportunities. It is recognized that not all resources will exhibit all of these functions and conditions.

II. DEFINITIONS

Bankfull Stage:	The elevation at which water overflows the natural banks of the stream.
Bioengineering	A method of erosion control and landscape restoration using live plants, such as willows.
Building Envelope:	The land area, outside of all required setbacks, which is available for construction of a primary structure on a particular property.
Delineation:	An analysis of a resource by a qualified professional that determines its boundary according to an approved methodology.
Excavation:	Removal of organic or inorganic material (e.g. soil, sand, sediment, muck) by human action.

Fill:	Deposition of organic or inorganic material (e.g. soil, sand, sediment, muck, debris) by human action.
Impervious surface:	Any material (e.g. rooftops, asphalt, concrete) which reduces or prevents absorption of water into soil.
Lawn:	Grass or similar materials usually maintained as a ground cover of less than 6 inches in height. For purposes of this ordinance, lawn is not considered native vegetation regardless of the species used.
Major Marsh:	A wetland designated as significant under Statewide Planning Goal 17.
Mitigation:	A means of compensating for impacts to a Significant Natural Resource or its buffer including: restoration, creation, or enhancement. Some examples of mitigation actions are construction of new wetlands to replace an existing wetland that has been filled, replanting trees, removal of nuisance plants, and restoring streamside vegetation where it is disturbed.
Native Vegetation:	Plants identified as naturally occurring and historically found within the City of Gold Beach.
Natural Resource Enhancement:	A modification of a natural resource to improve its quality.
Natural Resource Overlay:	Designation given to all Significant Wetlands and Riparian Corridors indicated on the Significant Natural Resources Map.
Non-conforming:	A structure or use that does not conform to the standards of this ordinance but has been in continuous existence from prior to the date of adoption of this ordinance up to the present. Non-conforming uses are not considered violations and are generally allowed to continue, although expansion, reconstruction, or substantial improvements are regulated.

Non-Significant Wetland:	A wetland mapped on the City of Gold Beach <i>Local Wetlands Inventory</i> , but which does not meet the primary criteria of the Oregon Division of State Lands Administrative Rules, OAR Chapter 141, for Identifying Significant Wetlands (July, 1996 or as amended). A non-significant wetland may still be regulated by the Oregon Division of State Lands and the US Army Corps of Engineers.
Qualified professional:	An individual who has proven expertise and vocational experience in a given natural resource field. A qualified professional conducting a wetland delineation must have the wetland delineation approved by the Oregon Division of State Lands.
Review Authority:	The City of Gold Beach
Riparian Area:	The area adjacent to a river, lake or stream consisting of the area of transition from an aquatic ecosystem to a terrestrial ecosystem. For purposes of this ordinance, riparian areas are identified on the Gold Beach Significant Natural Resources Overlay Zone Map.
Riparian Corridor:	A Goal 5 resource that includes the water areas, fish habitat, riparian areas, and wetlands within the riparian corridor boundary. For purposes of this ordinance, riparian corridors are identified on the Gold Beach Significant Natural Resources Overlay Zone Map.
Shrubs:	Woody vegetation usually greater than 3 feet tall, but less than 20 feet tall, including multi-stemmed, bushy shrubs and small trees and saplings.
Significant Natural Resource:	Significant Wetlands and Riparian Corridors, Major Marshes and Significant Riparian Vegetation within the City of Gold Beach Urban Growth Boundary and designated on the Significant Natural Resources Map.

- Significant Wetland:** A wetland mapped on the City of Gold Beach *Local Wetlands Inventory* which meets the primary criteria of the Oregon Division of State Lands Administrative Rules, OAR Chapter 141, for Identifying Significant Wetlands (July, 1996 or as amended).
- State and Federal Natural Resource Agency:** Oregon Division of State Lands, Oregon Department of Fish and Wildlife, U.S. Army Corps of Engineers, U.S. Department of Agriculture Natural Resources Conservation Service, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, Department of Environmental Quality.
- Stream:** A channel such as a river or creek that carries flowing surface water, including perennial streams and intermittent streams with defined channels, and excluding man-made irrigation and drainage channels. For purposes of this ordinance, streams are identified on the Gold Beach Significant Natural Resources Overlay Zone Map.
- Structure:** A building or other major improvement that is built, constructed or installed, not including minor improvements, such as fences, utility poles, flagpoles, or irrigation system components that are not customarily regulated through zoning ordinances.
- Substantial Improvement:** Any repair, reconstruction, or improvement of a structure, the cost of which equals or exceeds 50 percent of the market value of the structure either:
- (a) Before the improvement or repair is started, or
 - (b) If the structure has been damaged and is being restored, before the damage occurred. For the purposes of this definition “substantial improvement” is considered to occur when the first alteration of any wall, ceiling, floor, or

other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure.

The term does not, however, include either:

- (c) Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions, or
- (d) Any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.

Top of Bank:

A distinct break in slope between the stream bottom and the surrounding terrain, which corresponds with the bankfull stage of the stream.

Trees:

A woody plant 5 inches or greater in diameter at breast height and usually at least 20 feet tall.

Variance:

A grant of relief from the requirements of this ordinance, which permits activity in a manner that would otherwise be prohibited by this ordinance.

Wetland:

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. For purposes of this ordinance, streams are identified on the Gold Beach Significant Natural Resources Overlay Zone Map.

III. APPLICABILITY

A. Affected Property

The procedures and requirements of the Significant Natural Resources (SNR) Overlay Zone:

- a) apply to any parcel designated as having a Significant Natural Resource as mapped in the comprehensive plan;
- b) apply in addition to the standards of the property's underlying zone;
- c) supercede the property's underlying zone where the underlying zone does not provide the level of Significant Natural Resource protection afforded by the SNR Overlay Zone.

B. Activities Subject to Review

Activities subject to the review shall include all development on properties outlined in III.A. and not specifically exempted from review as outlined in Section III.C, including:

1. Partitioning and subdividing of land.
2. New structural development.
3. Exterior expansion of any building or structure, or increases in impervious surfaces or storage areas.
4. Site modifications including grading, excavation or fill, installation of new above or below ground utilities, construction of roads, driveways, or paths.
5. Removal of trees or the cutting or clearing of native vegetation within the Significant Natural Resource beyond that required to maintain landscaping on individual lots existing on the effective date of this ordinance, and removal of diseased or damaged trees that pose a hazard to life or property.

C. Exemptions

Activities exempt from this ordinance include:

1. The sale of property.
2. Temporary emergency procedures necessary for the safety or protection of property.
3. Commercial forest practices regulated by the Oregon Forest Practices Act.

4. Normal and accepted farming practices other than the construction of buildings, structures, or paved roads.
5. All water-related and water-dependant uses.

D. Agency Review

Decisions made by the City of Gold Beach under this ordinance do not supercede the authority of the state or federal agencies which may regulate or have an interest in the activity in question. It is the responsibility of the applicant to ensure that all necessary state or federal permits or clearances are obtained. In particular, state and federal mitigation requirements for impacts associated with approved water-related or water-dependant uses may still be required.

IV. GENERAL DEVELOPMENT STANDARDS

A The permanent alteration of the Significant Natural Resource by grading, by excavation or fill, by the placement of structures or impervious surfaces, or by the removal of native vegetation is prohibited, except for the following uses provided they are designed to minimize intrusion into the significant natural resource, and no other options or locations are feasible:

1. Streets, roads, paths, and driveways;

Public or private streets, driveways, or paths may be placed within a Significant Natural Resource to access development activities if it is shown to the satisfaction of the reviewing authority that no other practicable method of access exists. If allowed, the applicant shall comply with the following requirements:

- i. Demonstrate to the reviewing authority that no other practicable access to the buildable area exists or access from an off-site location through the use of easements is not possible;
- ii. Design roads, driveways, and paths to be the minimum width necessary and for the minimum intrusion into the Significant Natural Resource while also allowing for safe passage of vehicles and/or pedestrians;
- iii. Use bridges, arched culverts, or box culverts with a natural bottom for crossing of a Significant Natural Resource if the crossing is found unavoidable. The lower lip of any culvert must meet the channel bed at or below grade. The number of channel crossings shall be minimized through use of shared access for abutting lots and access through easements for adjacent lots;

- iv. Consider the need for future extensions of shared access, access easements, or private streets to access potential new building sites at the time of this application in order to avoid subsequent encroachments into the Significant Natural Resource;
- v. During construction, no stockpiling of fill materials, parking, or storage of equipment shall be allowed within the Significant Natural Resource;
- vi. Erosion control measures, such as silt fences and biofilter bags, shall be used to reduce the likelihood of sediment and untreated stormwater entering the Significant Natural Resource.
- vii. Permanent alteration of the Significant Natural Resource by the placement of public or private streets, driveways, or paths is subject to the mitigation requirements of Section VII.

2. Utilities and drainage facilities;

Public and private utilities or drainage facilities may be placed within a significant natural resource when it is shown to the satisfaction of the review body that no other practicable alternative location exists. If a utility or drainage facility is allowed within a Significant Natural Resource the following standards shall apply:

- i. Demonstrate to the reviewing authority that no other practicable access exists or access from an off-site location through the use of easements is not possible;
- ii. The corridor necessary to construct utilities shall be the minimum width practical so as to minimize intrusion into the Significant Natural Resource. Removal of trees and native vegetation shall be avoided unless absolutely necessary. The existing grade of the land shall be restored after construction. Native vegetation shall be used to restore the vegetative character of the construction corridor.
- iii. During construction, no stockpiling of fill materials, parking, or storage of equipment shall be allowed within the Significant Natural Resource.

3. Replacement of existing structures with structures in the same location that do not disturb additional surface area;

4. Structures or other non-conforming alterations existing fully or partially within the Significant Natural Resource may be expanded provided the expansion occurs outside of the Significant Natural Resource. Substantial improvement of a non-conforming structure in the Significant Natural Resource shall require compliance with the standards of this ordinance.
 5. Existing lawn within the Significant Natural Resource may be maintained, but not expanded within the limits of the Significant Natural Resource. Development activities shall not justify replacement of native vegetation, especially riparian vegetation, with lawn.
 6. Existing shoreline stabilization and flood control structures may be maintained. Any expansion of existing structures or development of new structures shall be evaluated by the Planning Department and appropriate state or federal natural resource agency. Such alteration of Significant Natural Resources shall be approved only if less-invasive or non-structural methods, such as bioengineering, will not adequately meet stabilization or flood control needs.
- B. Removal of vegetation from the Significant Natural Resource is prohibited, except for:
1. Removal of non-native vegetation and replacement with native plant species. The replacement vegetation shall cover, at a minimum, the area from which vegetation was removed, shall maintain or exceed the density of the removed vegetation, and shall maintain or improve the shade provided by the vegetation.
 2. Removal of vegetation necessary for the development of approved water-related or water-dependents uses or for the continued maintenance of dikes, drainage ditches, or other stormwater or flood control facilities. Vegetation removal shall be kept to the minimum necessary.
 3. Trees in danger of falling and thereby posing a hazard to life or property may be removed, following consultation and approval from the City Planner. If no hazard will be created, the department may require these trees, once felled, to be left in place in the Significant Natural Resource.
 4. The control or removal of nuisance plants should primarily be by mechanical means (e.g. hand-pulling). If mechanical means fail to adequately control nuisance plant populations, a glyphosate-based herbicide is the only type of herbicide that can be used in a significant natural resource area. No pre-emergent herbicides or auxin herbicides that pose a risk of contaminating water should be used. Herbicide applications is preferred to be made early in the morning or during windless periods at least 4 hours before probable rainfall.

V. NATURAL RESOURCE ENHANCEMENT

Enhancement of natural resources, such as riparian enhancement, in-channel habitat improvements, non-native plant control, and similar projects which propose to improve or maintain the quality of a Significant Natural Resource is encouraged, however, no enhancement activity requiring the excavation or filling of material in a wetland shall be allowed unless all applicable State and Federal wetland permits have been granted.

VI. VARIANCES TO SECTION XXX

A variance to the provisions of Section XXX is permitted only as a last resort and is only considered necessary to allow reasonable economic use of the subject property. The property must be owned by the applicant and not created after the effective date of this Section.

A. A variance shall only apply to:

1. Lots on which the location of a Significant Natural Resource results in a building area depth for a single-family dwelling of 25 feet or less or a building envelope of 800 square feet or less;
2. Lots where strict adherence to the standards and conditions of Section IV would effectively preclude a use of the parcel that could be reasonably expected to occur in the zone, and that the property owner would be precluded a substantial property right enjoyed by the majority of landowners in the vicinity.

B. Permanent alteration of the Significant Natural Resource by an action requiring a variance is subject to the procedures and criteria of Article 7 and the mitigation requirements of Section VII.

VII. MITIGATION STANDARDS

When approved impacts to any identified Significant Natural Resource occurs, mitigation will be required. For impacts to Significant Wetlands or Major Marshes, the standards and criteria of Section VII A shall apply. For impacts to Riparian Corridors or Riparian Vegetation, the standards and criteria of Section VII B shall apply.

A. When mitigation for impacts to a Significant Wetland or a Major Marsh is proposed, the mitigation plan shall comply with all Oregon Division of State Lands and U.S. Army Corps of Engineers wetland regulations. The City may approve a development but shall not issue a building permit until all applicable State and Federal wetland permit approvals have been granted and copies of those approvals have been submitted to the City.

- B. When mitigation for impacts to a non-wetland riparian area is proposed, a mitigation plan prepared by a qualified professional shall be submitted to the review authority. The mitigation plan shall meet the following criteria:
- a. Mitigation for impacts to a non-wetland riparian area shall require a minimum mitigation area ratio of 1:1;
 - b. The mitigation plan shall document the location of the impact, the existing conditions of the resource prior to impact, the location of the proposed mitigation area, a detailed planting plan of the proposed mitigation area with species and density, and a narrative describing how the resource will be replaced;
 - c. Mitigation shall occur on-site and as close to the impact area as possible. If this is not feasible, mitigation shall occur within the same drainage basin as the impact;
 - d. All vegetation planted within the mitigation area shall be native to the region. Species to be planted in the mitigation area shall replace those impacted by the development activity;
 - e. Trees shall be planted at a density of not less than 5 per 1000 square feet. Shrubs shall be planted at a density of not less than 10 per 1000 square feet.

VIII. PLAN AMENDMENT OPTION

Any owner of property affected by the SNR Overlay Zone within the Goal 5 planning area, as designated in the comprehensive plan, may apply for a quasi-judicial comprehensive plan amendment. This amendment must be based on a specific development proposal. The effect of the amendment would be to remove the SNR Overlay Zone from all or a portion of the property. The applicant shall demonstrate that such an amendment is justified by completing an Environmental, Social, Economic and Energy (ESEE) consequences analysis prepared in accordance with OAR 660-23-040. If the application is approved, then the ESEE analysis shall be incorporated by reference into the Gold Beach Comprehensive Plan, and the Gold Beach Significant Natural Resources Map shall be amended to remove the site from the inventory.

The ESEE analysis shall adhere to the following requirements:

1. The ESEE analysis must demonstrate to the ultimate satisfaction of the Gold Beach City Council that the adverse economic consequences of not allowing the conflicting use are sufficient to justify the loss, or partial loss, of the resource. The City should confer with and the Department of Land Conservation and Development prior to making their ultimate decision;

2. The ESEE analysis must demonstrate why the use cannot be located on buildable land outside of the Significant Natural Resource and that no other sites within the City of Gold Beach that can meet the specific needs of the proposed use;
3. The ESEE analysis shall be prepared by qualified professional experienced in the preparation of Goal 5 ESEE analyses, with review by DLCDC.