CITY OF TILLAMOOK, OREGON
LOCAL WETLAND INVENTORY

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INTRODUCTION TO THE LWI PROCESS

Wetlands are valuable resources, providing water quality protection, flood control, wildlife habitat, and recreational opportunities. Planners and citizens have learned that they need an overview of wetland types and locations within their entire community in order to protect and use these valuable wetland resources. Local Wetland Inventories are designed to gather this information.

A Local Wetland Inventory is a systematic survey of a fairly large geographic area, intended to locate and map wetlands over 0.5A and classify them by type. The purpose of a Local Wetland Inventory (LWI) is to provide community-wide information on wetlands to aid in city planning and development. By mapping wetlands within an entire community, rather than waiting for landowners to conduct delineations on individual parcels in a piecemeal fashion, the community gains a valuable overview of the wetland situation in their area. With this overview, planners and citizens can then prioritize wetlands for protection, arrange for delineations in areas where development may occur, and streamline the removal/fill permitting process to help landowners avoid regulatory violations during development.

An LWI provides useful information, but it does not substitute for site-by-site wetland delineations. The wetland boundaries drawn during an LWI are approximate, and are often based on offsite methods where access is prohibited or logistically difficult. Although the intent is to map all wetlands over 0.5A (and for this LWI, many wetlands smaller than 0.5A were mapped), the methods used in an LWI are by nature less accurate than the more intensive methods used for wetland delineations. Therefore, the LWI wetland maps may not include all wetlands within the study area, and there may be upland areas within the mapped wetlands. When development may occur in or near an area with wetlands or probable wetlands, a complete wetland delineation must be conducted at the development site to establish accurate jurisdictional boundaries for the wetlands.

The wetland maps included with this LWI report use several symbols to show wetland characteristics and different levels of accuracy involved in the mapping process. "W" indicates wetlands. "PW" indicates Probable Wetlands; these are generally areas that were inaccessible, but which show indicators of wetland status from offsite. "M" indicates a wetland/upland mosaic, in which wetlands and uplands intergrade in a complex pattern, for which boundaries could not be determined in a study of this type due to budget and time limitations.

Two line types are used to indicate the accuracy of wetland boundaries on the LWI maps. Solid lines are used where the boundary is clearly visible on the ground or in an aerial photograph. Broken lines are used where the boundary is more gradual or obscure, and/or access or visibility was limited. Solid line boundaries are more accurate than broken line boundaries.

This report provides information required by the DSL Local Wetland Inventory Standards and Guidelines, as well as additional information intended to make the report easier to use. Included in this report are: (1) an executive summary; (2) a study area summary; (3) a description of wetland determination procedures, information sources, and mapping methods used in the study; (4) technical staff qualifications; (5) references cited; (6) a list of maps and mylar overlays

included in the LWI package (Appendix 1); (7) a key to abbreviations and codes used in the summary sheets and data sheets (Appendix 2); (8) wetland summary sheets (Appendix 3); (9) data sheets for wetlands sampled (Appendix 4); and (10) maps of wetlands identified during the inventory (Appendix 5).

EXECUTIVE SUMMARY

This LWI used methods outlined in the Oregon Division of State Lands Local Wetlands Inventory Standards and Guidelines. Wetlands within the study area were located using the methods of the 1987 Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987), and were defined using characteristics described below in "Wetland Criteria." Before field work was begun, aerial photographs, National Wetland Inventory maps, soil surveys, and other data were used to create a preliminary wetlands map. Field work to ground-truth the preliminary map, establish wetland boundaries, and locate additional wetlands was conducted during August 1995. Offsite methods were used where access was prohibited or logistically difficult. Wetland boundaries were refined using infrared aerials and stereo pairs where necessary. Wetland boundaries were transferred to assessor's maps and then digitized to provide overlay maps for this report.

This LWI located approximately 240 acres of wetlands within the Tillamook City study area of about 1620 acres. Wetlands are generally found near watercourses such as Hoquarton Slough, Dougherty Slough, Hall Slough, and Holden Creek. Some wetlands are also found in depressions that receive water from surface flow, ponding, and seeps. Most of the wetlands are seasonally flooded; many are actively grazed. Vegetation types include emergent wetlands (consisting of grasses, sedges, and other herbaceous plants), scrub-shrub wetlands (which often have a willow canopy and a sedge understory), and forested wetlands, often alder or Sitka spruce woodlands with skunk cabbage or sedge understory.

WETLAND CRITERIA

Hydrology

Hydrology is considered the driving force of wetland ecology. To be classified as a wetland, an area must exhibit a water table saturating the major portion of the root zone for a significant period during the growing season, or about 3 weeks on the Oregon coast. Positive indicators of wetland hydrology include visual observation of inundation and soil saturation in the upper 12" of the soil profile (direct indicators), and indirect indicators such as high water marks, drift lines, sediment deposits, wetland drainage patterns, living oxidized root channels, soil survey data, stream gauge data, flood predictions and historic records.

Vegetation

Some plant species can tolerate saturated soil conditions for long periods during the growing season. These plants are considered hydrophytic. An area must show a predominance of hydrophytic vegetation to be classified as a wetland. For the purpose of determining hydrophytic vegetation, plants are classified into five categories in the National List of Plant Species That

Occur in Wetlands (Reed 1988; Reed 1993). The categories, from most to least tolerant of wet soil, are: obligate wetland plants (OBL), facultative wetland plants (FACW), facultative plants (FAC), facultative upland plants (FACU), and obligate upland plants (UPL). Modifiers to these categories, consisting of "+" and "-", show if a plant is more (+) or less (-) tolerant of wet conditions than plants in an unmodified category. There are two other categories: "no indicator" (NI) is used when insufficient information is available for a species; and "not on list" (NOL) is used for species that are not included in the national list. It is frequently inferred that NOL species are UPL. If a site, under normal conditions, has more than 50 percent of dominant species classified as OBL, FACW, and/or FAC (excluding FAC-), that site meets the vegetation criterion for classification as a jurisdictional wetland.

Soils

Jurisdictional wetlands must have hydric soils, which are soils that are saturated or flooded long enough during the growing season to develop anaerobic conditions within the major portion of the root zone. These soils are listed in Hydric Soils of the United States (Soil Conservation Service, 1987), and in the federal delineation manual (Environmental Laboratory, 1987). Hydric soils usually develop morphological indicators of prolonged wetness, and these indicators must be observed in the field to confirm hydric soils. The indicators include histic layers, hydrogen sulfide odor, aquic moisture regime, gleying, low chroma matrix, distinct mottling, and iron and manganese concretions.

STUDY AREA SUMMARY

The study area for the Tillamook LWI includes the area inside the Tillamook Urban Growth Boundary (UGB), plus a 500 foot strip beyond the UGB on both the east and west sides of Highway 101 north of town. The area is generally flat, consisting of floodplains, alluvial terraces, bottomland, and shallow slopes adjacent to bottomland. The largest watercourses are the Wilson River and Trask River; other waterways include diked sloughs (Hoquarton Slough, Dougherty Slough, and Hall Slough) and several smaller creeks.

When we began the field survey, we did not know the names for any drainages other than the sloughs and the Wilson and Trask Rivers. To make it easier to discuss locations during the survey, we assigned names to the creeks to commemorate Tillamook's most famous products: the largest creek that crosses the south part of the study area was nicknamed Cheddar Creek; its tributary that flows in from the north just west of Marolf Loop was nicknamed Cojack Creek. The southern tributary to Cheddar Creek which crosses the southeast corner of the study area (beginning near the section corner for T1S R9W Sections 28, 29, 32 and 33) was nicknamed Jack Creek. A tributary to Hoquarton Slough that crosses the northeast corner of the study area was nicknamed Colby Creek. We later found out that Cheddar Creek is actually named Holden Creek, so we used the latter name on the summary sheets, but the data sheets show it as Cheddar Creek.

This LWI located 240 acres of wetlands within the 1620 acre study area. Characteristics of these wetlands are described below under "Hydrology", "Vegetation" and "Soils."

Hydrology

Wetland occurrence in the study area is generally related to proximity to watercourses. Wetland hydrology in these areas derives from seasonal flooding and a high water table near the waterway. On broad flat floodplains adjacent to Hoquarton Slough and parts of Holden Creek, the land is generally forested, and wetlands and wetland/upland mosaics cover large areas. The eastern third of the study area has large areas of pasture that are mostly upland, but have narrow strips of wetland along creeks. Not all wetlands are associated with watercourses; some emergent wetlands are found in depressions that are not adjacent to creeks, or in excavations such as stock ponds and log ponds and rock quarries. Wetland hydrology in these isolated depressions is related to surface flow and ponding. There are also some wetlands that appear to be fed by seeps (groundwater discharge) near Holden Creek and Jack Creek.

Vegetation

Most wetlands in the study area fall into the Cowardin et al (1979) wetland types PFOC, PSSC, and PEMC, indicating that they are palustrine (P) wetlands dominated by forested (FO), scrub-shrub (SS) or emergent (EM) vegetation, and with a seasonally-flooded (C) hydrologic regime. Vegetation in these wetlands depends on land use history -- generally forested where the land has remained undisturbed, but emergent or scrub-shrub where it has been cleared. Most of the wetlands along Hoquarton Slough and certain parts of Holden Creek are forested. From Dougherty Slough north to the Wilson River the wetlands are usually emergent and are actively grazed; this is also true for much of Holden Creek.

Wooded wetlands generally have an alder canopy, with scattered Sitka spruce (*Picea sitchensis*, classified FAC) in the tree layer, salmonberry (*Rubus spectabilis*, FAC+), red elderberry (*Sambucus racemosa*, FACU), and willow (*Salix* species, FAC to FACW) in the shrub layer, and skunk cabbage (*Lysichiton americanum*, OBL), water parsley (*Oenanthe sarmentosa*, OBL), slough sedge (*Carex obnupta*, OBL), and subarctic lady-fern (*Athyrium filix-femina*, FAC) in the herbaceous layer. Scrub-shrub wetlands often have a willow canopy, with salmonberry, Douglas spiraea (*Spiraea douglasii*, FACW), and red elderberry in the shrub layer, and slough sedge, soft rush (*Juncus effusus*, FACW), reed canarygrass (*Phalaris arundinacea*, FACW), birdsfoot trefoil (*Lotus corniculatus*, FAC) and creeping buttercup (*Ranunculus repens*, FACW) in the herbaceous layer. Emergent wetlands are often dominated by slough sedge or rushes (*Juncus* species); other common dominants include reed canarygrass, birdsfoot trefoil, creeping buttercup, colonial bentgrass (*Agrostis tenuis*, FAC), water foxtail (*Alopecurus geniculatus*, OBL), Pacific silverweed (*Potentilla pacifica*, OBL), dock (*Rumex* species), and velvetgrass (*Holcus lanatus*, FAC).

Soils

Wetlands within the study area generally have silt loam or silty clay loam soils with bright mottling in the upper 12" of the soil profile. Common soil series in wetlands include Coquille silt loam, Brenner silt loam, and Hebo silty clay loam. All three of these soils are listed as hydric soils for Tillamook County (SCS, 1989). In some cases, these soils are not mapped in the wetland area, but appear to be present as inclusions within the mapped series.

Brenner soils are commonly found on bottomlands and floodplains or in swales adjacent to alluvial terraces. They are formed in alluvial deposits and are poorly drained, resulting in ponding after heavy rain or flooding. Coquille soils are similar in texture and location to the Brenner soils and are also subject to tidal flooding. Coquille soils are very poorly drained and are characterized by complex microrelief of depressions, ridges and sloughs. This microrelief leads to complex intermingling of wetland and upland areas, marked on the study area maps as "M" for "Mosaic." Hebo soils are found in depressions or level ground on alluvial terraces and bottomland. These soils are poorly drained, partly due to a heavy clay layer that begins at a depth of 10" or more. This clay layer (called a "clay pan") is very slowly permeable, and as a result the root zone is often waterlogged during the wet season. Hebo soils are the only clay pan soils in the Tillamook area.

Other soil series commonly found in the study area are Nestucca silt loam, Nehalem silt loam, Quillayute silt loam, and Ginger silt loam. These four series are not listed as hydric soils, but they may have hydric inclusions from the Coquille, Brenner, and Hebo series (SCS, 1989).

METHODS AND INFORMATION SOURCES

Information sources

We met with Eileen Miller and Steve Dunn, planners for Tillamook City, on April 25, 1995 to learn what Tillamook City hoped to accomplish during this study. During this discussion, we identified the City's priority areas for wetland identification, and reviewed background information. At this meeting and at subsequent dates prior to the field inventory, we used the following information sources to develop a preliminary wetlands map and develop a plan of action for the study:

- U.S. Army Corps of Engineers color infrared aerial photos flown in October 1989; scale 1:24,000. We had these photos enlarged fourfold to achieve a scale of 1" = 500' (1:6000).
- Black and white air photos (in stereo pairs) flown by WAC Corporation in May 1994. These were used to locate areas of change since the date of the infrared photos.
- A wetlands reconnaissance for portions of the north end of Tillamook City, conducted by David Evans and Associates in 1992, entitled "Wetland Reconnaissance on Selected Sites within the City of Tillamook Urban Growth Boundary."
- Flood Insurance Rate maps
- Assessor's maps for Tillamook City. Detail maps were available at a scale of 1" = 100' (occasionally 1" - 200'), with index maps at 1" = 400'.
- Tillamook City Comprehensive Plan and Zoning Map at a scale of 1" = 800'
- Wetland delineations submitted to DSL for two sites within the study area
- U.S. Fish and Wildlife Service's National Wetlands Inventory map (Tillamook, Oregon 7.5 minute quad)
- Tillamook County Soil Survey, including the list of hydric soils for Tillamook County

Field studies

In August 1995, Tillamook City Planning sent a letter to all property owners in the city notifying them of the study. The letter included a permission slip to be returned to the city by property owners who wished to allow access to their land for onsite sampling. We received permission to do onsite sampling on less than 10% of the study area. Luckily, the areas to which we had access included at least one site near each of the major drainages except the Wilson River.

Field studies followed the DSL Local Wetlands Inventory Standards and Guidelines. Wetland determinations were conducted using the methods of the 1987 Corps of Engineers Wetlands Delineation Manual. As described in the manual, the interaction of hydrology, vegetation, and soil results in the development of characteristics unique to wetlands. If a soil profile is saturated or flooded with water for a sufficient period of time, it becomes anaerobic (lacking oxygen). Lack of oxygen within the soil during the growing season changes the characteristics of both soil and vegetation. By examining the soil, vegetation and hydrology of an area, we can determine if a site is saturated long enough during the growing season to be classified as a wetland.

LWI guidelines require mapping of all wetlands larger than 0.5 acre (about 100' by 218'). To meet Tillamook City's needs, we mapped wetlands considerably smaller than that minimum size. In coastal communities, there is often intense pressure to develop property, and many city lots are small. In order for the city to have good wetland information for property owners, we mapped any identified wetland area that occupied the equivalent of one-third of a 50' by 100' city lot, a minimum of about 0.04 acre (approximately 50' by 35').

We conducted field studies at the end of August 1995. This is the driest part of the year, a season when wetland hydrology often can't be observed directly (that is, by looking for soil saturation in the plant root zone). However, the summer of 1995 was unusually wet, so we were still able to directly observe wetland hydrology at many of the field sites. At sites that were seasonally dry, we used indirect indicators of wetland hydrology (see "Wetland Criteria" above, and "Hydrology" below). Sites where wetland hydrology could not be observed either directly or indirectly (either due to lack of access or seasonal dry conditions), but where both soils and vegetation showed strong wetland indicators, were marked as "probable wetland."

The timing of field work was ideal for plant species identification. Grasses, sedges and rushes had fully developed fruits and could be identified to species. Due to the wet summer, few areas were so dry that vegetation was senescent.

Since we had access to such a small part of the city, our limited time and budget needed to be applied carefully to develop an accurate and complete picture of wetlands in the City. First, we decided to use the enlarged (1" = 500') infrared airphotos as base maps for marking wetland boundaries in the field. Mapping wetlands onto mylar overlays placed over these enlargements provided an excellent combination of efficiency and accuracy. Using the enlarged air photos as base maps gave us an accurate way to correlate landmarks and air photo signatures. With the air photos we could quickly locate likely wetland areas, vantage points for offsite observations, and access routes to the limited properties where we could conduct onsite sampling. We also found that working directly on the air photos helped us follow drainages and visualize watershed

boundaries quickly and accurately in the field, an important factor in a study area where wetlands are generally associated with drainages. We used the assessor's maps in the field to locate accessible properties relative to the air photo landmarks.

Field data was recorded on data sheets specially prepared for this study. A separate, uniquely numbered data sheet was used for each sample point. During field data collection, we worked in teams of two, with one person taking vegetation data while the other sampled soils and hydrology. Completed data sheets are included in Appendix 4. Names of plant species and wetland types were abbreviated using standard codes; keys to these codes are found in Appendix 2.

We worked systematically across the study area, one pair beginning with the Hoquarton Slough area and working north to the Wilson River, and the other pair starting with the Holden Creek drainage and then branching out to its tributary drainages. Each major drainage was field checked, both in obvious wetland areas and in areas for which the air photo and background information was ambiguous. Onsite sample points were located in both wetland and contrasting upland sites wherever possible, subject to access limitations. In some cases, the wetland boundary was abrupt and did not require a contrasting upland sample point. In general, wetland boundaries were placed by comparing the plant community at a particular point to the community at nearby sample points where soils and hydrology had been sampled, and then extrapolating the boundary. Where wetlands were extensive, we sampled at several locations to characterize the range of soils and vegetation types present.

We sampled ***hydrology*** at each sample point using a tile spade or auger to check soil saturation and soil moisture levels. At sites that were seasonally dry, we used indirect, secondary indicators of wetland hydrology as described in "Wetland Criteria" above, such as drift lines, high water marks, sediment deposits, wetland drainage patterns, water-stained leaves, living oxidized root channels, soil survey data, and historic records. Sites where wetland hydrology could not be observed either directly or indirectly (either due to lack of access or seasonal dry conditions), but where both soils and vegetation showed strong wetland indicators, were marked as "probable wetland."

We sampled ***vegetation*** by visual estimation of dominant species and their percent cover. Names of plant species and wetland types were abbreviated on the data sheets using standard codes; keys to these codes are found in Appendix 2.

We sampled ***soils*** by observing the soil profile using a tile spade or soil auger. Soil color was recorded using Munsell Soil Color Charts; texture, moisture, and structure were determined by feel. Mottling, concretions, oxidized root channels, and other characteristics were recorded.

Offsite methods

Since we had no access to over 90% of the study area, we often used offsite wetland determination methods. Where we could not access a site due to lack of landowner permission and/or logistical limitations, we used aerial photos, the Tillamook County Soil Survey, the NWI map, and other resources to locate probable wetland areas. Where plant communities could not

be observed on the ground (due to lack of a vantage point), we used the air photos to draw the dividing line between wetland and upland. In this case, boundaries were placed by comparing photo signatures to onsite ground-truthing observations from nearby areas. Where the boundary was clear on the air photo (with an obvious vegetation change or topographic break), a solid line was used on the maps. Where the boundary was less distinct due to dense vegetation or a gradual change from wetland to upland, it was marked as a broken line. A broken line boundary is less accurate than a solid-line boundary.

Where we did not have access to a site, but we could observe the plant communities from the ground nearby, we filled out a datasheet marked "OBS" for "Observation Point." In some cases we could observe hydrology from offsite (e.g., water flowing in a stream, or standing water). If offsite observation showed that the site met the vegetation and hydrology criteria for wetland, and soils for the site were mapped as hydric in the soil survey (or contained hydric inclusions), the area was marked as wetland on the study area map. If vegetation was hydrophytic and soils were mapped as hydric (or contained hydric inclusions), but wetland hydrology could not be directly observed from offsite, the area was shown as "PW" (probable wetland) on the map.

Some parts of the study area are characterized by complex intermingling of wetland and upland areas. Often the scale of the pattern is too small to be seen on air photos, or the canopy is the same in both wetland and upland areas, differing only in understory vegetation. These areas are marked with the code "M" for "Mosaic" on the study area maps.

Map preparation

After field work was completed, we transferred the wetland boundaries from the air photos used in the field to working copies of the assessor's maps. All boundaries were marked on the most detailed map available for the site. This was generally a 1" = 100' map, but for some areas only a 1" = 400' index map was available. Where necessary, we used the air photo signatures in conjunction with the soil survey, NWI maps, and other background information to place the boundaries. Use of stereo pairs of air photographs greatly enhanced accuracy at this stage. Any boundaries that were based on offsite methods were drawn as broken lines, unless the wetland boundaries were very clear on the air photos.

After wetland boundaries were marked on the maps, wetlands were divided into separate identifiable areas and assigned identification codes. The three-letter identification codes relate wetlands to the drainage with which they are associated. For example, HOQ1, HOQ2, and HOQ3 are three wetlands associated with Hoquarton Slough. A new code was assigned at hydrologic constrictions, such as culverts, or where sample points were available to separate a wetland into distinct subareas. Hydrologically isolated wetlands were assigned codes that related them to the nearest drainage. A separate summary sheet was prepared for each uniquely coded wetland (see Appendix 3, Summary sheets). Sample points were numbered within each coded wetland, for example, HOQ1-1, HOQ1-2, and HOQ1-3 are three sample points within the wetland called HOQ1.

C & G White Cartography digitized our hand-drawn wetland boundaries from the working copies of the draft assessors' maps and plotted them for use as overlays over the assessors' maps.

These digitized maps include the following wetland codes: "W" for wetlands, "PW" for probable wetlands, and "M" upland/wetland mosaic. The maps also show sample points, including onsite sample points, marked with a "X" in a circle, and offsite "OBS" points, marked with an open circle.

In some cases discrepancies may be noted in the position of drainages such as Hoquarton Slough, Hall Slough and Dougherty Slough on the overlays versus the underlying base (assessor's) maps.This is due to variability in the placement of the sloughs on the various scales of base maps which were used as the source for digitization.

Limitations of the LWI process

This LWI was conducted within a strictly limited budget and covered a large area, approximately 3 square miles. The LWI procedures were designed to allow efficient location of wetlands while attempting to avoid expenditures beyond the budget. We made every effort to locate, describe and map all wetlands within the study area, but due to lack of access and limited time and budget, some inaccuracy is possible. This is particularly true for the large wooded areas near Hoquarton Slough and along Holden Creek, where wetland and upland areas are intermingled and look similar on air photos, differing mainly in the understory vegetation. Despite these limitations, we feel this report provides the quality and accuracy needed by Tillamook City for planning purposes.

As stated on the study area maps, information on the maps is for planning purposes; all wetland boundaries are approximate. There may be upland areas within mapped wetlands; there may also be unmapped wetlands subject to regulation. Most importantly, an LWI provides useful information, but it does not substitute for site-by-site wetland delineations (see "Introduction to the LWI Process", page 2). When development may occur in or near an area with wetlands or probable wetlands, a complete wetland delineation must be conducted at the development site to establish accurate jurisdictional boundaries for the wetlands.

TECHNICAL STAFF QUALIFICATIONS

This LWI was conducted by Loverna Wilson, Environmental Consultant, Corvallis, Oregon; Phil Scoles of Scoles Associates, Portland, Oregon, and Laura Brophy of Green Point Consulting, Corvallis, Oregon. The project team has a broad range of field experience in wetland delineation, and has conducted over 400 delineations at work sites throughout Oregon and the Pacific Northwest. These sites have included farm pastures, urban dumps, clear-cut creek corridors, and pristine mountain meadows. Each of our projects has demanded professional judgement not only to evaluate wetland resources, but also to place our findings in the context of other resources (e.g., wildlife habitat, storm water retention). The following section briefly outlines the qualifications of each of the three team members.

Loverna Wilson has a M.S. in Botany (Plant Ecology) from Oregon State University. She has been a consulting plant ecologist since 1979, and started her own consulting company in 1983.

Her experience as a plant ecologist includes a broad background in vegetation sampling and data interpretation. During her consulting work she has been responsible for a wide variety of studies involving habitat type sampling, plant community analysis, vegetation mapping, impact assessment, and mitigation design. She is also a plant taxonomist familiar with the plant communities of much of the northwestern United States, and often conducts rare, threatened and endangered species surveys. Wetlands-related studies have comprised a major part of her work during the past ten years. She conducts wetland assessments and boundary delineations, as well as providing impact assessment, mitigation design, and assistance with the wetland removal/fill permitting process. Ms. Wilson managed the Gearhart, Oregon LWI and the completion of the Rockaway Beach, Oregon LWI. In 1995-96, she conducted the Tillamook, Oregon LWI with Phil Scoles and Laura Brophy. In addition, she frequently teaches wetland plant identification workshops.

Phil Scoles is the principal of Scoles Associates, Inc. He holds a B.S. in Soil and Water Science from the University of California at Davis. For the past 8 years, he has managed more than 250 projects involving soil survey, soil and land use assessment, wetland soil and hydrology delineation, soil and water sampling, ground water monitoring, contaminated soil definition, disturbed site restoration, UST decommissioning, proposed landfill impact on soils and surface water, real estate environmental assessment, wetland mitigation and computer modeling. He has evaluated and documented soil resources for seven EA and EIS projects, and participated in research projects that focused on soil salinity and heavy metals distribution in arid lands. Additionally, he has utilized his technical and analytical laboratory experience in water quality to establish and instruct methods for baseline and EPA / RCRA soil and water sampling , QA/QC, and decontamination. He is currently licensed as a UST supervisor in Oregon (DEQ license no. 218) and as a soil matrix cleanup supervisor (DEQ license no. 1547). Mr. Scoles currently serves as the Chairman of the Board of Directors for the National Society of Consulting Soil Scientists (NSCSS) and serves as President for the NSCSS Pacific Northwest Chapter. He worked with Ms. Wilson on the Rockaway Beach, Oregon LWI. In 1995, he worked with Loverna Wilson and Laura Brophy on the Tillamook, Oregon LWI. On occasion, Mr. Scoles instructs other professionals on atypical and problem area wetland delineations.

Laura Brophy is the sole proprietor of Green Point Consulting. She provides consulting services in the areas of botanical ecology, biological statistics and development-related environmental impact. She holds a Bachelor's degree in Biology and a Masters degree in Agronomy, with graduate research and coursework emphasis in the areas of plant community ecology, soil microbiology, statistics, and plant physiology. She has more than 17 years of professional experience in applied plant ecology, gained in a variety of settings including wetlands, tropical forests, mined lands, native grasslands, and agricultural lands in Oregon, Minnesota, Colorado, North Dakota, and the Republic of Panama. Prior to the establishment of Green Point Consulting, her work involved ecology of agricultural host-pathogen interactions, mined land restoration, seed bank ecology, farming systems research, and native plant community restoration. From 1986 to 1995 she managed field and laboratory operations for an agricultural ecology project at Oregon State University, coordinated all computerized data analysis and simulation modeling, and published research results. Since she established Green Point Consulting in 1994, she has taken the lead or collaborated on 48 wetland delineations and environmental assessments. She has broad experience working in a team setting on projects

including wetland inventory, farming systems research, low-input agriculture, and native plant community restoration. In 1995-96, she worked with Loverna Wilson and Phil Scoles on the Tillamook, Oregon LWI.

Our subcontractor for cartography work on this project was **C & G White Cartography** of Corvallis. This firm has been involved in a wide range of GIS and related mapping projects for public and private groups and has produced maps for several wetland inventories, including LaPine, Wickiup Junction, Philomath, Astoria, and portions of Corvallis, Oregon. They have also contracted with the Oregon Department of Fish and Wildlife to digitize the department's NWI maps.

REFERENCES

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. US Fish and Wildlife Service, Biological Services Program, Document FWS/OBS-79/31.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, Miss.

Soil Conservation Service. 1964. Soil Survey of Tillamook Area, Oregon.
USDA Soil Conservation Service, in cooperation with Oregon Agricultural Experiment Station.

Soil Conservation Service. 1989. Hydric Soils in Tillamook County Area, Oregon. USDA Soil Conservation Service, May 31, 1989.

APPENDIX 1. MAP LIST

List of base maps with mylar overlays included in LWI package
NOTE: Complete set includes 27 maps, including comprehensive city map.

1. Comprehensive city map (paper plot only; NOT to be used as an overlay)
2. 1S 9 19 & Index
3. 1S 9 19B
4. 1S 9 19C
5. 1S 9 28 & Index
6. 1S 9 28AB
7. 1S 9 28CB
8. 1S 9 29 & Index
9. 1S 9 29AC
10. 1S 9 29CA
11. 1S 9 29CC
12. 1S 9 29CD
13. 1S 9 30 & Index
14. 1S 9 30BB
15. 1S 9 30BC
16. 1S 9 30BD
17. 1S 9 30CC
18. 1S 9 30CD
19. 1S 9 30DC
20. 1S 9 30DD
21. 1S 10 24 & Index
22. 1S 10 24D
23. 1S 10 25 & Index
24. 1S 10 25AA
25. 1S 10 25AC
26. 1S 10 25CA
27. 1S 10 25DC

APPENDIX 2. ABBREVIATIONS FOR WETLAND TYPES AND PLANT SPECIES

The following pages list abbreviations used in the wetland summary sheets and data sheets. Standard NWI wetland codes used on data sheets and summary sheets are described below. The four-letter abbreviations used for plant species names on the data sheets are found on separate pages following the wetland codes.

National Wetland Inventory (NWI) classification codes:

The following are the NWI classification codes relevant to the Tillamook LWI (from USFWS NWI Map, Tillamook 7.5" quad.). To describe a wetland, the classification codes are combined to describe the wetland system, subsystem (if any), class, and subclass, plus any modifiers describing water regime, water chemistry, and other special characteristics of the wetland. For full technical descriptions and definitions, see Cowardin et al (1979).

Wetland systems:

P = palustrine (vegetated, nontidal wetlands; unvegetated shallow-water wetlands)
R = riverine (wetlands contained within a channel, without persistent vegetation)

Wetland subsystems:

R2 = lower perennial (low gradient, slow water velocity; year-round water flow)

Wetland classes:

EM = emergent: vegetated mainly by herbaceous (non-woody) plants
FO = forested: vegetated mainly by trees (woody vegetation > 6 m tall)
SS = scrub-shrub: vegetated mainly by shrubs and other woody vegetation <6 m tall
UB = unconsolidated bottom: less than 30% vegetative cover, and less than 75% rock cover)

Wetland modifiers:

A = temporarily flooded
C = seasonally flooded
F = semipermanently flooded
H = permanently flooded
f = farmed
x = excavated

Examples of complete wetland classification codes:

PFOC: palustrine forested wetlands, seasonally-flooded
PEMCx: palustrine emergent wetlands, seasonally-flooded, excavated
R2UBH: lower perennial riverine wetlands, unconsolidated bottom, permanently flooded

APPENDIX 2: ABBREVIATIONS FOR PLANT SPECIES

CITY OF TILLAMOOK
LOCAL WETLAND INVENTORY (LWI)

DATA SHEETS - PLANT CODES AND NAMES

Code	Scientific Name	Common Name
ACMA	*Acer macrophyllum*	big-leaf maple
AGRE	*Agropyron repens*	quackgrass
AGTE	*Agrostis tenuis*	colonial bentgrass
AGROS	*Agrostis* sp.	bentgrass
ALRU	*Alnus rubra*	red alder
ALGE	*Alopecurus geniculatus*	water foxtail
ALPR	*Alopecurus pratensis*	meadow foxtail
ANOD	*Anthoxanthum odoratum*	sweet vernalgrass
AREL	*Arrhenatherum elatius*	tall oatgrass
ATFI	*Athyrium filix-femina*	ladyfern
BRMO	*Bromus mollis*	soft brome
CALLI	*Callitriche* sp.	water starwort
CAOB	*Carex obnupta*	slough sedge
CIVU	*Cirsium vulgare*	bull thistle
CIRSI	*Cirsium* sp.	thistle
COAR	*Convolvulus arvensis*	small bindweed
COSE	*Convolvulus sepium*	hedge bindweed
COST	*Cornus stolonifera*	red-osier dogwood
COCO	*Corylus cornuta*	hazel
CRCA	*Crepis capillaris*	smooth hawksbeard
CYCR	*Cynosurus cristatus*	crested dogtail
CYSC	*Cytisus scoparius*	Scot's broom
DAGL	*Dactylis glomerata*	orchardgrass
DECE	*Deschampsia cespitosa*	tufted hairgrass
ELOV	*Eleocharis ovata*	ovate spikerush
EPWA	*Epilobium watsonii*	Watson's willow-weed
EQAR	*Equisetum arvense*	field horsetail

CITY OF TILLAMOOK
LOCAL WETLAND INVENTORY (LWI)

DATA SHEETS - PLANT CODES AND NAMES (continued)

Code	Scientific Name	Common Name
FEAR	*Festuca arundinacea*	tall fescue
GLYCE	*Glyceria* sp.	mannagrass
GNPA	*Gnaphalium palustre*	west. marsh cudweed
GNUL	*Gnaphalium uliginosum*	low cudweed
HEHE	*Hedera helix*	English ivy
HOLA	*Holcus lanatus*	velvetgrass
ILEX	*Ilex aquifolium*	English holly
JUAC	*Juncus acuminatus*	taper-tip rush
JUAR	*Juncus articulatus*	jointed rush
JUBU	*Juncus bufonius*	toad rush
JUEF	*Juncus effusus*	soft rush
JUEN	*Juncus ensifolius*	dagger-leaf rush
JUTE	*Juncus tenuis*	slender rush
LIAM	*Lysichiton americanum*	skunk cabbage
LOMU	*Lolium multiflorum*	Italian ryegrass
LOPE	*Lolium perenne*	perennial ryegrass
LOCO	*Lotus corniculatus*	bird's-foot trefoil
MADI	*Maianthemum dilatatum*	false lily-of-the-valley
OESA	*Oenanthe sarmentosa*	water parsley
PHAR	*Phalaris arundinacea*	reed canarygrass
PHCA	*Physocarpus capitatus*	Pacific ninebark
PISI	*Picea sitchensis*	Sitka spruce
PLLA	*Plantago lanceolata*	English plantain
POA	*Poa* sp.	bluegrass
POAV	*Polygonum aviculare*	prostrate knotweed
POPE	*Polygonum persicaria*	lady's thumb
POSA	*Polygonum sachalinense*	giant knotweed
POLYG	*Polygonum* sp.	smartweed; knotweed
POMU	*Polystichum munitum*	swordfern

DATA SHEETS - PLANT CODES AND NAMES (continued)

Code	Scientific Name	Common Name
POPA	*Potentilla pacifica*	silverweed
PRVI	*Prunus virginiana*	chokecherry
PTAQ	*Pteridium aquilinum*	bracken fern
PYFU	*Pyrus fusca*	crabapple
RARE	*Ranunculus repens*	creeping buttercup
RANUN	*Ranunculus* sp.	buttercup
RHPU	*Rhamnus purshiana*	cascara
ROCU	*Rorippa curvisiliqua*	curve-pod yellowcress
ROSA	*Rosa* sp.	wild rose
RUDI	*Rubus discolor*	Himalayan blackberry
RULA	*Rubus laciniatus*	evergreen blackberry
RUSP	*Rubus spectabilis*	salmonberry
RUUR	*Rubus ursinus*	trailing blackberry
RUCO	*Rumex conglomeratus*	clustered dock
RUCR	*Rumex crispus*	curly dock
RUOB	*Rumex obtusifolius*	bitter dock
SAHO	*Salix hookerana*	Hooker willow
SALA	*Salix lasiandra*	Pacific willow
SAPI	*Salix piperi*	Piper willow
SASC	*Salix scoulerana*	Scouler willow
SASI	*Salix sitchensis*	Sitka willow
SALIX	*Salix* sp.	willow
SARA	*Sambucus racemosa*	red elderberry
SCMI	*Scirpus microcarpus*	small-fruited bulrush
SCVA	*Scirpus validus*	soft-stem bulrush
SEJA	*Senecio jacobaea*	tansy ragwort
SISYR	*Sisyrinchium* sp.	blue-eyed grass
SPAR	*Spergula arvensis*	stickwort
SPDO	*Spiraea douglasii*	Douglas spiraea
TOME	*Tolmeia menziesii*	piggy-back plant
TRAE	*Triticum aestivum*	cultivated wheat

DATA SHEETS - PLANT CODES AND NAMES (continued)

Code	Scientific Name	Common Name
TRRE	*Trifolium repens*	white clover
TSHE	*Tsuga heterophylla*	western hemlock
TYLA	*Typha latifolia*	cattail
VAPA	*Vaccinium parvifolium*	red huckleberry
VESC	*Veronica scutellata*	marsh speedwell

APPENDIX 3: WETLAND SUMMARY SHEETS

The following pages present summary sheets for the wetlands identified during this LWI.

The wetlands included are:

Drainage	Wetland code
Cojack Creek	COJ1
Colby Creek	COL1
	COL2
Dougherty Slough	DOU1
	DOU2
Hall Slough	HAL1
	HAL2
	HAL3
	HAL4
Holden Creek	HOL1
	HOL2
	HOL3
	HOL4
	HOL5
	HOL6
Hoquarton Slough	HOQ1
	HOQ2
	HOQ3
	HOQ4
Jack Creek	JAC1
Trask River	TRA1

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	COJ1
Datasheet:	COJ1-13 (PEMCx, OBS), COJ1-14 (PEMC, OBS), COJ1-15 (UPL)
Field verification date:	8/29/95
Location:	Ditched Cojack Creek and adjacent depressions, NE corner of intersection of Marolf Loop and Brookfield Avenue, south to forested wetland along Holden Creek. Includes mitigation site NW of intersection of Marolf Loop and Brookfield Avenue.
Legal:	T1S R92 SW 1/4 of Sec 29 and NW 1/4 of SE 1/4, Sec 29; tax map 1S 9 29 lot 700; map 1S 9 29CA lots 302 and 304
Size:	0.8 A
NWI classification:	PEMA, PEMC, PEMCx
Hydrologic basin:	Cojack Creek
Soil:	Hebo silty clay loam
Topography:	Bottomland and low alluvial terrace

Dominant vegetation:

Shrub layer:	**Herbaceous layer:**
Spiraea douglasii	*Carex obnupta*
	Lotus corniculatus
	Camassia quamash

Comments:
This wetland consists of a large emergent wetland with prominent stands of camas (*Camassia quamash*) just south of Third Street, emergent wetland dominated by slough sedge and spiraea a little further south. The wetland also includes a linear section that follows the ditched drainage of Cojack Creek west from the intersection of Marolf Loop and Brookfield Avenue, and then turns south to join the forested wetland along Holden Creek north of Twelfth Street. This wetland also includes a wetland mitigation site just west of Marolf Loop near Third Street, consisting of an excavated pond dominated by *Eleocharis ovata* and *Juncus bufonius*, with associated species including *Polygonum persicaria*, *Ranunculus* sp., *Juncus ensifolius*, *Juncus articulatus*, *Veronica scutellata*, and *Gnaphalium uliginosum* on the banks. An island in the pond is dominated by *Juncus effusus*, *Salix* sp., and *Iris* sp. The pond was constructed between May 1994 and August 1995.

Due to lack of landowner permission for access, most of this wetland could not be accessed for soil and hydrology sampling. The wetland datasheets for this area are marked "OBS", indicating offsite observational data points. For the wetlands east of Marolf Loop, offsite observation showed hydrophytic vegetation, and mapped soils are shown as hydric, so the area is shown as "PW" or probable wetland on the study area map. For the mitigation pond (sample point COJ1-13), wetland hydrology and vegetation were obvious, so the area is shown as wetland.

Outflow from the mitigation pond runs south through a ditch and then joins Cojack Creek. Cojack Creek is ditched along its entire length as it runs west about 400' and then south about 1600', after which it flows into the forested wetlands along Holden Creek. Just south of the mitigation pond, the bottom of the ditch is dominated by *Juncus* spp. and *Spiraea douglasii*. Much of the rest of the ditched creek is covered with *Rubus discolor*. According to neighboring landowners, the ditched creek was cleared out in about 1993 for the subdivision to the west, but since it was cleared only to the south end of the development it doesn't drain well.

Adjacent uplands include pastureland east of Cojack Creek, dominated by *Agrostis tenuis*, *Lolium perenne*, and *Holcus lanatus*. Associated species include *Trifolium repens* and *Ranunculus repens*. Soil in the pasture is 10YR 2/1 to 2/2 Quillayute silt loam, unmottled in the top 20". Vacant upland fields near the mitigation pond are dominated by *Agrostis tenuis*, *Holcus lanatus*, *Anthoxanthum odoratum*, and *Rubus laciniatus*.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: COL1
Datasheet: COL1-69 (PSSC), COL1-70 (UPL), COL1-71(UPL), COL1-72(PEMC), COL1-73 (UPL)
Field verification date: 8/30/95
Location: East of Olsen Road, south of Wilson River Hwy.
Legal: T1S R9W Sec 28 NW 1/4 of NE 1/4; tax map 1S 9 28AB lots 501, 503, 1100
Size: 1.5 A
NWI classification: PSSC, PEMC
Hydrologic basin: Colby Creek
Soil: Hebo silty clay loam

Typical colors, shrub-scrub wetland:

0-10" (Ap):	2.5Y 2.5/1 moist silt loam; mottles too faint to distinguish
10-16" (Bw):	2.5Y 3/1 moist silt loam+; common, distinct 7.5YR 3/4 mottles
16-19" (Bt1):	2.5Y 3/1 moist silty clay loam; many, prominent 7.5YR 3/4 mottles
19->22" (Bt2):	5Y 4/1 moist silty clay loam, many, prominent 7.5YR 4/6 mottles

Typical colors, emergent wetland:

0-8" (Ap):	2.5Y 2.5/1 moist silt loam; few, distinct 10YR 4/4 mottles
8-12" (AB):	10YR 3/2 moist silt loam+; common, distinct 10YR 4/6 mottles
12-16" (Bt1):	10YR 3/2 moist silty clay loam; many, distinct 10YR 4/6 mottles
16->24" (Bt2):	2.5Y 3/1 moist silty clay loam; many, prominent 7.5YR 4/6 mottles

Topography: Broad drainageway

Dominant vegetation, scrub-shrub wetland:

Shrub layer:	**Herbaceous layer:**
Sambucus racemosa	*Ranunculus repens*
Salix hookeriana	*Oenanthe sarmentosa*
Spiraea douglasii	

Dominant vegetation, emergent wetland:
Herbaceous layer:
Phalaris arundinacea

Comments:
This wetland follows the drainage of Colby Creek, a tributary to Hoquarton Slough, through the forested land on the east portion of lot 503. Much of the drainage was ditched over 10 years ago but has been undisturbed since then. Scrub-shrub wetlands are found along the drainage; associated species present in these wetlands include *Cornus stolonifera*, *Rosa* sp., and *Oenanthe sarmentosa*. Portions of the scrub-shrub wetlands were inundated by 1-4" of standing water at the field date; these areas are dominated by *Cornus stolonifera* and *Salix hookeriana* with bare ground below. Other parts of the drainage have little overstory and a solid understory of *Oenanthe sarmentosa*.

In the southwest corner of lot 503, the drainage narrows and was ditched west to Trask River Road over 10 years ago. However, it has not been disturbed since then and it is now an area of emergent wetland vegetated with *Phalaris arundinacea*.

Adjacent uplands include forested areas on the eastern portion of lot 503, and cleared land on the west edge of the lot. The forested areas are dominated by *Tsuga heterophylla*, *Rubus spectabilis*, *Corylus cornuta*, *Rubus discolor*,

COL1 (continued)

and *Maianthemum dilatatum*. Associated species include *Picea sitchensis*, *Hedera helix*, *Polystichum munitum*, *Carex obnupta*, and *Ilex aquifolium*. Soils here are Quillayute silt loam, with a 3 inch duff layer underlain by a 10" A horizon of 10YR 3/2 unmottled, slightly moist silt loam and a Bw horizon (10" - >24") of 7.5YR slightly moist unmottled silt loam.

Cleared upland areas near developed house lots in the western portion of lot 503 are dominated by *Agrostis tenuis* and *Rubus discolor*; soils here are Quillayute series, slightly moist 10YR 2/2 silt loam, unmottled in the upper 18", and slightly moist to moist 10YR 2/2 to 10YR 3/2 silt loam with common, fine 10YR3/2 to 7.5YR 3/3-4 mottles below 18". In cleared upland areas on the north-facing slope near the former ditch in the southwest corner, vegetation is dominated by *Ranunculus repens*, *Crepis capillaris* and *Phalaris arundinacea* and soils are unmottled 10YR 2/1 Ginger silt loam from 0 to 30".

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	COL2
Datasheet:	COL2-74 (OBS), COL2-75 (OBS)
Field verification date:	8/30/95
Location:	Swales through pastureland west of Schild Road and east of Wilson River Loop, between 3rd Street and Highway 6
Legal:	T1S R9W, N 1/2 of NE 1/4 of Sec 29; tax map 1S 9 29 lots 200 and 201
Size:	4.1 A
NWI classification:	PEMC
Hydrologic basin:	Colby Creek
Soil:	Mapped as Ginger silt loam, which may have inclusions of Hebo silty clay loam
Topography:	Bottomland

Dominant vegetation:
Herbaceous layer:
Alopecurus geniculatus
Rumex crispus
Holcus lanatus
Glyceria sp.

Comments:
This wetland follows two swales that flow into ditches along Highway 6 (and subsequently into Hoquarton Slough). The drainages flow west through mowed and grazed land north of 3rd Street and south of Highway 6. Associated species include *Ranunculus repens*, *Lolium multiflorum*, *Polygonum* sp., *Gnaphalium palustre*, *Agrostis tenuis*, *Spergula arvensis*, and *Juncus effusus*. The southern swale is quite broad, but may have an upland area in the middle where the ground appears to rise slightly.

Due to lack of landowner permission, this wetland could not be accessed for soil and hydrology sampling. Aerial photos, soils maps, the NWI map, and other resources were used to determine likely wetland areas. Dominant plant species and hydrology were observed from offsite (see datasheets marked "OBS"). This offsite observation showed that the site met the vegetation criterion for wetland; secondary indicators of wetland hydrology were observed, and the mapped soil series may have hydric inclusions, so the area is shown as probable wetland ("PW") on the study area map.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	DOU1
Datasheet:	DOU1-50 (UPL), DOU1-51 (PEMCf)
Field verification date:	8/28/95
Location:	Tilled field between Hall Slough and Dougherty Slough, just E of Blue Heron Lane (500' E of Hwy 101)
Legal:	T1S R9W Sec. 19 SW 1/4; tax map 1S 9 19C lots 900, 902.
Size:	7.2 A
NWI classification:	PEMCf
Hydrologic basin:	Dougherty Slough
Soil:	Coquille silt loam Typical profile: 0-10" (Ap): 2.5Y 3/2 dry silt loam; common, faint 10YR 3/4 mottles 10-17: (AB): 2.5Y 3/2 slightly moist silt loam; common, distinct 10YR 4/6 mottles >17" (Bw): 5Y 3/2 very moist silt loam; common, distinct 7.5YR 3/3 mottles
Topography:	Low alluvial terrace

Dominant vegetation:
Herbaceous layer:
Rumex obtusifolius
Trifolium repens
Triticum aestivum (planted)

Comments:
This wetland includes a small area in tax lot 900 and a large farmed wetland in tax lot 902, which was plowed after 1992 and probably seeded with wheat and white clover in 1995. Associated species include *Polygonum persicaria, Ranunculus repens, Polygonum aviculare, Rorippa curvisiliqua, Gnaphalium palustre,* and *Potentilla pacifica*. The wetland in tax lot 902 is located in a swale draining southwest to a ditch on the west lot line.

Adjacent upland fields are dominated by *Trifolium repens*; associated species include *Lolium multiflorum,* and *Rumex obtusifolius*. Soils in the upland are Nehalem silt loams, 10YR 3/3 to 10YR 3/4 with no mottling in the upper 25 inches.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: DOU2
Datasheet: DOU2-81 (PEMC), DOU2-82 (UPL)
Field verification date: 8/31/95
Location: Pasture south of Werner Road, between Dougherty Slough and Hall Slough
Legal: T1S R10W Sec. 24 SE 1/4; tax map 1S 10 24D lots 1900, 1904
Size: 0.9 A
NWI classification: PEMC
Hydrologic basin: Dougherty Slough
Soil: Coquille silt loam
Topography: Low alluvial terrace

Dominant vegetation:
Herbaceous layer:
Alopecurus geniculatus
Juncus effusus
Potentilla pacifica
Ranunculus repens

Comments:
This wetland is in an actively grazed pasture. The wetland is located in a depression which slopes west to a ditch on the west lot line; it is shown in a delineation by Scientific Resources, Inc. dated August 8, 1991. The lowest portions of the wetland have some cover of *Carex obnupta* and a higher percent cover of *Potentilla pacifica*.

Adjacent upland portions of the field are dominated by *Agrostis tenuis* and *Festuca arundinacea*; with *Dactylis glomerata* also present. Soils in the adjacent upland are Nehalem silt loams, 10YR 3/3 to 10YR 3/4 with no mottling in the upper 22 inches.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: HAL1
Datasheet: HAL1-52 (PEMC, OBS)
Field verification date: 8/28/95
Location: Vacant field on north side of Wilson River Loop, about 600' east of Hwy 101
Legal: T1S R9W Sec 19; tax map 1S 9 19B lots 501, 503
Size: 4.3 A
NWI classification: PEMC
Hydrologic basin: Hall Slough
Soil: Nehalem silt loam
Topography: Low alluvial terrace

Dominant vegetation:

Shrub layer:	**Herbaceous layer:**
Salix sp.	*Festuca arundinacea*
	Agrostis tenuis
	Lotus corniculatus

Comments:
This wetland lies in a vacant field just north of Wilson River Loop, starting about 600 feet east of Highway 101. This area was constructed as a floodwater detention area. Although the wetland is very close to the Wilson River, high dikes along the river indicate that the wetland's drainage generall flows south to Hall Slough.

Due to lack of landowner permission for access, this wetland could not be accessed for soil and hydrology sampling. The datasheet is therefore marked "OBS", indicating an offsite observational data point. Offsite observation showed hydrophytic vegetation, and although mapped soils are not hydric, they may have hydric inclusions. Therefore, this area is shown as "PW" or probable wetland on the study area map.

Although it is currently an emergent wetland, *Salix* saplings are abundant on the site and will probably increase in cover until the site becomes scrub-shrub wetland. Associated species include *Juncus effusus*, *Carex obnupta*, and *Phalaris arundinacea*.

Adjacent uplands include urban development to the west (Shilo Inn), the diked bank of the Wilson River to the north, vacant fields and housing to the east, and upland pasture to the south (south of Wilson River Loop).

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: HAL2
Datasheet: HAL2-53 (PEMC, OBS), HAL2-54 (PEMC, OBS)
Field verification date: 8/28/95
Location: Swale east of Cornet and low areas of vacant field south of Cornet plaza, east of Highway 101 and south of Wilson River Loop
Legal: T1S R9W Sec 19; tax map 1S 9 19B lot 700
Size: 4.3 A
NWI classification: PEMC
Hydrologic basin: Hall Slough
Soil: Nestucca silt loam
Topography: Alluvial terrace

Dominant vegetation:
Herbaceous layer:
Phalaris arundinacea
Juncus effusus
Ranunculus repens
Festuca arundinacea

Comments:
The north end of this wetland consists of a swale immediately east of the Cornet store (just south of Wilson River Loop, and east of Highway 101). The swale drains south into a mowed field south of the Cornet plaza, where it broadens and appears to form a mosaic of wetland and upland. Clumps of *Juncus effusus* are scattered in the wetter parts of this field; percent cover of *Juncus effusus* is highest in the northwest portion of the field, which is probably the wettest. The only associated species that could be identified from offsite was *Lotus corniculatus*.

Due to lack of landowner permission for access, this wetland could not be accessed for soil and hydrology sampling. The datasheets are therefore marked "OBS", indicating offsite observational data points. Offsite observations showed hydrophytic vegetation, and although the mapped soils are not hydric, they may have hydric inclusions. Therefore, this area is shown as "PW" or probable wetland on the study area map.

Adjacent uplands include urban development to the west (the Cornet store, plaza, and parking lot), and upland pasture to the east, dominated by *Festuca arundinacea*.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	HAL3
Datasheet:	HAL3-55 (PEMC, OBS), HAL3-56 (PEMC, OBS)
Field verification date:	8/28/95
Location:	Vacant fields and pastures west of Highway 101 and north of Goodspeed Road
Legal:	T1S R10W Sec 24; tax map 1S 10 24 lots 300, 303, 304 and 800; map 1S 10 24D lot 600
Size:	7.7 A
NWI classification:	PEMC, PEMCx
Hydrologic basin:	Hall Slough
Soil:	Brenner silt loam
Topography:	Alluvial terrrace

Dominant vegetation:
Herbaceous layer:
Ranunculus repens
Juncus effusus
Trifolium repens
Agrostis sp.

Comments:
This wetland is located in broad depressions and swales on vacant fields and actively grazed pastures behind development along Highway 101, just north of Goodspeed Road. A small excavated pond on tax lot 303 is part of this wetland. Sample point HAL3-56 is located in a heavily-grazed swale that forms the south portion of the wetland. Associated species include *Juncus effusus, Lysichiton americanum, Festuca arundinacea, Holcus lanatus,* and *Rumex* sp.

Due to lack of landowner permission for access, this wetland could not be accessed for soil and hydrology sampling. The datasheets for this area are therefore marked "OBS", indicating offsite observational data points. Offsite observation showed hydrophytic vegetation, and although the mapped soils are not hydric, they may have hydric inclusions. Therefore, this area is shown as "PW" or probable wetland on the study area map.

Adjacent uplands include upland pasture to the north and west, upland pasture and Goodspeed Road to the south, and development along Highway 101 to the east.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: HAL4
Datasheet: HAL4-57 (PEMC, OBS)
Field verification date: 8/29/95
Location: Vacant field south of Goodspeed Road, west of development along Highway 101
Legal: T1S R10W Sec 24; tax map 1S 10 24D lot 900
Size: 0.7 A
NWI classification: PEMC
Hydrologic basin: Hall Slough
Soil: Nestucca silt loam
Topography: Alluvial terrace

Dominant vegetation:
Herbaceous layer:
Ranunculus repens
Potentilla pacifica

Comments:
This wetland is similar to HAL3, but hydrologically separated from HAL3 by Goodspeed Road. HAL4 is located on unmowed, ungrazed vacant land south of Goodspeed Road and west of development along Highway 101, at the rear of tax lot 900. Associated species include *Equisetum arvense*, *Lotus corniculatus*, *Phalaris arundinacea*, and *Lysichiton americanum*. The transition to upland vegetation is marked by dominance of *Festuca arundinacea* and *Dactylis glomerata*.

Due to lack of landowner permission for access, this wetland could not be accessed for soil and hydrology sampling. The datasheets are therefore marked "OBS", indicating offsite observational data points. Offsite observations showed hydrophytic vegetation, and although the mapped soils are not hydric, they may have hydric inclusions. Therefore, this area is shown as "PW" or probable wetland on the study area map.

Adjacent uplands include a small area of fill material to the west (covered with *Rubus discolor*); upland pasture further west and to the south; development to the east along Highway 101; and Goodspeed Road to the north.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: HOL1
Datasheet: HOL1-29 (PEMC), HOL1-30 (PEMC), HOL1-31 (PEMC, PSSC), HOL1-32 (UPL), HOL1-33 (UPL), HOL1-34 (UPL), HOL1-35 (PFOC), HOL1-36 (UPL, in wetland/upland mosaic), HOL1-37 (PEMC), HOL1-38 (PSSC). All except 29, 30 and 31 are OBS.
Field verification date: 8/30/95 and 8/31/95
Location: Holden Creek drainage, west of Trask River Road and east of Marolf Loop
Legal: T1S R9W SW 1/4 of Sec 28 and S 1/2 of Sec 29; tax map 1S 9 28 lots 1600, 1700, 1800, 1900, 2000 and 2100; map 1S 9 28 CB lots 100, 1890, 1900, 2000, 2002, 2400, 2500 and 3200; map 1S 9 29 lots 700 (fairgrounds), 701, and 702
Size: 25.8 A
NWI classification: PEMC, PSSC, PFOC
Hydrologic basin: Holden Creek
Soil: Hebo silty clay loam
Typical colors in emergent wetland:
0-~8" (Ap): slightly moist silty clay loam, color 10YR 3/2 (unmottled) to 10YR 2/1 with few faint to distinct 7.5YR 3/4 mottles
8-17": slightly moist to moist silty clay loam to clay, 10YR 2/1 to 10YR 3/1 with common to many distinct 7.5YR 3/4 mottles
17"+: moist to very moist silty clay to clay, color variegated 10YR 3/1 to 5/1 and 2.5Y 3/1 & 4/1 with many prominent 5YR 3/3 to 4/6 and 10YR 5/8 mottles
Topography: Bottomland

Dominant vegetation, forested wetland (PFOC):

Tree layer:	**Shrub layer:**	**Herbaceous layer:**
Alnus rubra	*Salix spp.*	*Carex obnupta*
	Sambucus racemosa	

Dominant vegetation, scrub-shrub wetland (PSSC):

Shrub layer:	**Herbaceous layer:**
Salix lasiandra	*Carex obnupta*
Salix sitchensis	*Juncus effusus*
Salix piperi	*Phalaris arundinacea*
Spiraea douglasii	
Salix hookeriana	

Dominant vegetation, emergent wetland (PEMC):
Herbaceous layer:
Lotus corniculatus
Ranunculus repens
Holcus lanatus
Agrostis tenuis
Juncus effusus
Carex obnupta

Comments:
This wetland follows Holden Creek and adjacent swales from Trask River Road west past McCormack Loop into wooded wetlands and wetland/upland mosaic on the south portion of the fairgrounds (lot 700) and lots 701 and 702 (tax map 1S 9 29). The wetland ends at the south boundary of lots 700 and 701, except for a small finger of probable wetland extending into lot 1000 parallel to and just east of the main creek. Wetlands along Holden Creek south of the wooded area are described in HOL2; these are mainly emergent wetlands. *(continued next page)*

HOL1 (continued)

Due to lack of landowner permission and/or logistical limitations, portions of this wetland could not be accessed for soil and hydrology sampling. Aerial photos, soils maps, the NWI map, and other resources were used to determine likely wetland areas, marked as "PW" for probable wetland on the study area map. Where possible, dominant plant species and hydrology were observed from offsite (see datasheets marked "OBS"). If this offsite observation showed that the site met the vegetation and hydrology criteria for wetland, and soils are mapped as hydric or may have hydric inclusions, the area is shown as wetland on the study area map. If vegetation was hydrophytic and soils are mapped as hydric, but hydrology could not be observed from offsite, the area is shown as "PW" or probable wetland on the map.

The easternmost portion of the wetland is a ditch following the south lot line of lot 1600 (map 1S 9 28) west from Trask River Road. The wetland expands from lot 1700 west, with fingers of emergent wetland (PEMC) in swales flowing southwest to Holden Creek and alder woodland along the creek. The alder woodlands appear to be a mosaic of upland and wetland (see datasheets HOL1-35 and HOL1-36).

Areas of emergent wetland dominated by *Juncus effusus* and scrub-shrub wetland dominated by *Salix* species are found north of Brookfield Avenue between McCormack Loop and Fairland Drive in lots 2000, 2002, 2400, and 2500 on tax map 1S 9 28 CB.

West of McCormack Loop and south of Brookfield Avenue, forested wetland/upland mosaic follows the stream course through lot 1890 (tax map 1S 9 28 CB), then broadens in the southeast corner of the fairgrounds (lot 1700, tax map 1S 9 29). In the southeast corner of lot 1900 on tax map 1S 9 28 CB, emergent wetland and upland form a mosaic in pastureland north of an excavated stock pond. The banks of the pond show hydrophytic vegetation and wetland hydrology, but the substrate consists of excavated fill material. An island in the pond shows scrub-shrub wetland vegetation dominated by *Salix lasiandra*, *Salix sitchensis*, *Salix piperi*, *Spiraea douglasii*, *Carex obnupta*, *Juncus effusus*, and *Phalaris arundinacea*.

Adjacent uplands include the area observed at sample point HOL1-32. There, the forested wetland mosaic is bordered on the north side by shrubby upland vegetation and a cleared field. The cleared field (observed from offsite) was determined to be probable upland even though 2 of 3 dominants were FAC (*Agrostis tenuis* and *Holcus lanatus)*, because the third dominant (*Rubus discolor*) is FACU, mapped soils are non-hydric, and associated species are non-hydrophytic (*Cytisus scoparius*, *Pteridium aquilinum*, *Plantago lanceolata*, *Senecio jacobaea*, and *Cirsium* sp.). In addition, at the rainy Oregon coast, FAC-dominated communities are not a reliable wetland indicator.

Adjacent uplands also include the area observed at sample point HOL1-33. This point is on cleared land south of Brookfield Avenue in lot 700 and 701 (map 1S 9 29). Upland pasture is also found to the south of lots 700 and 701 in lots 800 and 1000. The cleared area in lots 700 and 701 is dominated by *Arrhenatherum elatius*, *Agropyron repens*, and *Dactylis glomerata* with *Rubus discolor* and *Rubus laciniatus* on mounds of fill material. Associated species include *Phalaris arundinacea*, *Festuca arundinacea*, *Lolium perenne*, and *Rubus ursinus*. North of this cleared area, a ditch runs tangentially to the southwest corner of the fairgrounds racetrack. The ditch is deep and vegetation on its banks is non-hydrophytic, dominated by *Rubus discolor*. These two areas are part of an old airport site.

Lot 702, north of the mapped wetland, has been recently logged, and showed no wetland indicators.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: HOL2
Datasheet: HOL2-12 (PEMCf, OBS), HOL2-20 (PEMCf), HOL2-21 (UPL), HOL2-22 (PEMC), HOL2-23 (UPL), HOL2-27 (PEMC), HOL2-28 (PEMCf)
Field verification date: 8/30/95
Location: Holden Creek drainage in pastureland south of Tillamook County Fairgrounds
Legal: T1S R9W Sec. 29; tax map 1S 9 29 lots 800, 901 and 1000
Size: 4.9 A
NWI classification: PEMC
Hydrologic basin: Holden Creek
Soil: Hebo silty clay loam and Ginger silt loam

Typical colors, Hebo series (depressions):

0-~10" (Ap):	2.5Y 4/1 to 10YR 4/1 clay to silty clay loam; some sites prominently mottled, 7.5YR 4/6
11-~22" (AB/Bw):	2.5Y 4/1 to 10YR 5/1 clay to silty clay; many distinct to prominent 5YR 3/3 to 7.5YR 5/8 mottles
22"+ (some sites):	sandy riverine deposits

Typical colors, seeps (e.g. HOL2-22):

4-0" (duff):	litter layer
0-16" (Ap):	2.5Y 2/0 saturated silty clay loam
16-20" (A):	2.5Y 2/0 saturated silty clay, many prominent 5G 4/2 mottles
22":	gravel and weathered sandstone

Topography: footslope and bottomland (depression/swale)

Dominant vegetation:
Herbaceous layer:
Agrostis tenuis
Anthoxanthum odoratum
Carex obnupta
Holcus lanatus
Juncus effusus
Juncus ensifolius
Juncus tenuis
Lotus corniculatus

Comments:
This emergent palustrine wetland follows Holden Creek through pastureland south of the Tillamook County Fairgrounds. The immediate banks of the creek in the pasture are sometimes dewatered, but the creek channel itself meets wetland criteria, with vegetation dominated by *Phalaris arundinacea, Juncus effusus, Spiraea douglasii*, and *Rubus laciniatus*, and *Callitriche* sp. in the creek bed. Other wetland areas are scattered through the pasture, some fed by seeps near the stream (e.g., HOL2-22), others found in nearby depressions. The western end of the wetland (adjacent to Marolf Loop Road) has a dominant shrub layer (*Spiraea douglasii* and *Salix hookeriana*) along the creek banks.

Adjacent uplands are dominated by *Agrostis tenuis, Dactylis glomerata*, and *Festuca arundinacea*, with associated species including *Cynosurus cristatus*, *Holcus lanatus*, and *Plantago lanceolata*. Soils in adjacent uplands are generally unmottled in the upper 12".

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	HOL3
Datasheet:	HOL3-8 (PSSC), HOL3-9 (PEMC), HOL3-10 (PEMC, PSSC; OBS), HOL3-11 (PEMC, OBS), HOL3-16 (UPL), HOL3-17 (UPL), HOL3-18 (PSSC), HOL3-19 (PSSC)
Field verification date:	8/28/95 and 8/29/95
Location:	Holden Creek drainage from Marolf Loop west to Murray Way
Legal:	T1S R9W, S 1/2 of SW 1/4 of Sec 29, and SE 1/4 of SE 1/4, Sec 30; tax map 1S 9 29 CD lots 400, 500, 600, 700, 706, 2401, 2402, and 2501; tax map 1S 9 29 CC lots 100, 900, 1000, 2400, 2401, 2402, 2500, and 2600; tax map 1S 9 30 DD lot 3400
Size:	22.7 A
NWI classification:	PFOC, PSSC, PEMC
Hydrologic basin:	Holden Creek
Soil:	Hebo silty clay loam Typical colors: 0-~6" (A/Ap): 10YR 2/1 to 10YR 3/2 slightly moist silt loam to silty clay loam; generally unmottled 6-~15" (B): 10YR 3/1 to 10YR 5/1 moist silty clay loam; common 10YR 4/6 to 5YR 4/6 mottles 15-20"+ (B/C): 2.5YR 4/1 to 10YR 5/1 very moist silty clay; many 5YR 4/6 to 10YR 6/8 mottles
Topography:	Bottomland

Dominant vegetation, scrub-shrub wetland (PSSC):

Shrub layer:	**Herbaceous layer:**
Cornus stolonifera	*Carex obnupta*
Rubus laciniatus	
Rubus spectabilis	
Salix lasiandra	
Salix sitchensis	
Salix spp.	
Spiraea douglasii	

Dominant vegetation, emergent wetland (PEMC):

Herbaceous layer:

Carex obnupta
Holcus lanatus
Juncus effusus
Phalaris arundinacea
Ranunculus repens

Comments:

This wetland follows Holden Creek from Marolf Loop west to Murray Way. At the far east edge of the wetland, Holden Creek is ditched. The northern portion of the wetland is forested, with scrub-shrub and emergent wetlands on the south and west sides and in the northeast corner. Willows (*Salix* spp.) are dominant in both the forested and scrub-shrub wetlands; in some areas, the canopy of willow is over 20 feet tall and thus meets the definition of forested wetland. Associated species in the forested and scrub-shrub wetland include *Rubus laciniatus, Lysichiton americanum, Athyrium filix-femina, Maianthemum dilatatum, Polystichum munitum, Physocarpus capitatus*, and *Rosa* sp. Associated species in the emergent wetland include *Anthoxanthum odoratum*, *Juncus effusus*, *Polygonum persicaria*, *Spiraea douglasii*, *Sambucus racemosa*, and young *Cornus stolonifera* and *Salix sitchensis*. Some areas near the emergent wetland sample point (HOL3-9, south of the end of Williams Avenue) are dominated by *Rubus laciniatus*, *Lotus corniculatus*, and *Potentilla pacifica*. *(continued next page)*

HOL3 (continued)

Adjacent uplands include cleared fields and urban development north and south of the wetland, and upland forest north of the wetland on lot 100 (tax map 1S 9 29CC). Vegetation in the cleared fields is dominated by *Holcus lanatus*, *Dactylis glomeratus*, and *Agrostis tenuis*. Soils in the cleared fields are 10YR 2/1 to 10YR 2/2 Quillayute silt loam, unmottled to 11", or (in one profile) with few 5YR 3/3 mottles in the surface 16 inches. Some upland inclusions are found on higher ground within the forested wetland. In these areas, dominant vegetation includes *Picea sitchensis*, *Polystichum munitum*, *Maianthemum dilatatum*, *Carex obnupta*, *Rubus spectabilis*, *Rubus laciniatus*, and *Vaccinium parvifolium*. A berm has been built up at the south edge of the forested wetland (for example, just south of sample point 18); the berm probably serves to reduce flooding of fields to the south. The berm is vegetated by *Rubus discolor* and *Rubus laciniatus*.

At the time of the study, a portion of the forested wetland in lot 2501 was being cleared. Other human activities influencing the wetland include construction of homes and other buildings to the north and south, and associated mowing and landscaping activities.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: HOL4
Datasheet: HOL4-39 (PEMC)
Field verification date: 8/31/95
Location: Holden Creek west from Murray Way to Evergreen Drive
Legal: T1S R9W Sec 30; tax map 1S 9 30DD lots 2900, 2901, 2902, and 3300
Size: 2.3 A
NWI classification: PEMC
Hydrologic basin: Holden Creek
Soil: Hebo silty clay loam
Topography: Bottomland

Dominant vegetation:

Shrub layer:	**Herbaceous layer:**
Rubus discolor	*Juncus effusus*
Spiraea douglasii	*Lotus corniculatus*
Salix sp.	*Rosa* sp.

Comments:
This wetland follows Holden Creek through cleared land west from Murray Way to Evergreen Drive. The wetland is widest at the northeast corner of lot 2900; downstream from that point it follows the creek banks quite closely. Two tributary drainages meet wetland criteria and drain west into Holden Creek in the central portion of lot 2900. . Although the LWI team did not have landowner permission to access this site, the wetland has been delineated by SRI/Shapiro (DSL file # 93-0274 and 96-0364) and the delineated boundaries (taken from the SRI/Shapiro map dated 7/31/96) are shown on the LWI.

Vegetation on adjacent uplands consists of pasture grasses.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	HOL5
Datasheet:	HOL5-7 (PSSC, OBS)
Field verification date:	8/28/95
Location:	Holden Creek drainage through lumberyard, from Evergreen Drive west past Port of Tillamook Bay railroad tracks to Miller Avenue
Legal:	T1S R9W Sec 30; tax map 1S 9 30DC lots 1700 and 1900; map 1S 9 30 CD lots 100 and 4300
Size:	3.2 A
NWI classification:	PFOC, PSSC
Hydrologic basin:	Holden Creek
Soil:	Hebo silty clay loam
Topography:	Bottomland

Dominant vegetation:

Shrub layer:	**Herbaceous layer:**
Salix lasiandra	*Phalaris arundinacea*
Salix hookeriana	

Comments:
This wetland follows Holden Creek through the lumberyards from Evergreen Drive west past the Port of Tillamook Bay railroad tracks to Miller Avenue. The wetland is quite narrow (10 to 50') as it passes through industrial land between Evergreen Drive and the railroad tracks. Beyond the tracks, development has not pressed quite so close to the creek and the wetland widens to 100' to 150'. At the west end of the wetland, adjacent to Miller Avenue, the banks of Holden Creek are steep and the upper banks are effectively drained. As a result, this westernmost section of the wetland consists only of the creek bottom and lower banks.

Due to lack of landowner permission, this wetland could not be accessed for soil and hydrology sampling. The datasheet for this area is therefore marked "OBS", indicating an offsite observational data point. From the offsite observation point, vegetation appeared hydrophytic, and soils are mapped as hydric for this area. However, positive indicators of wetland hydrology (namely, inundation) could be observed only in the creek bed directly adjacent to Miller Avenue. The wetland as a whole is therefore shown as probable wetland ("PW") on the study area map.

As shown above, dominant vegetation in the creek bottom consists of willows and reed canarygrass; associated species include *Spiraea douglasii* and *Salix sitchensis*.

Adjacent uplands include urban and industrial development on both sides of the creek, and the upper banks of the creek, which are vegetated by *Alnus rubra*, *Rubus discolor*, *Convolvulus sepium*, and a tall, introduced *Polygonum* sp. (either *P. cuspidatum* or *P. sachalinense*).

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	HOL6
Datasheet:	HOL6-6 (PSSC, PFOC, OBS)
Field verification date:	8/28/95
Location:	Holden Creek from Miller Avenue west to Highway 101
Legal:	T1S R9W Sec. 30, tax map 1S 9 30CC lots 10000, 10100 and 11200; map 1S 9 30CD lots 4000, 4100
Size:	4.2 A
NWI classification:	PFOC, PSSC
Hydrologic basin:	Holden Creek
Soil:	Hebo silty clay loam
Topography:	Bottomland

Dominant vegetation:

Tree layer:	**Shrub layer:**	**Herbaceous layer:**
Alnus rubra	*Salix lasiandra* *Salix hookeriana*	*Phalaris arundinacea*

Comments:
This wetland is similar to HOL-5, but is hydrologically separated from HOL-5 by Miller Avenue. HOL-6 follows Holden Creek from Miller Avenue west to Highway 101. The banks of Holden Creek are steep near Miller Avenue, and the upper banks are effectively drained, so the wetland is narrow at its east end. The wetland widens west of Miller Avenue to form a large area of scrub-shrub and forested wetland.

Due to lack of landowner permission, this wetland could not be accessed for soil and hydrology sampling. The datasheet for this area is therefore marked "OBS", indicating an offsite observational data point. From the offsite observation point, vegetation appeared hydrophytic, and soils are mapped as hydric for this area. However, positive indicators of wetland hydrology (namely, inundation) could be observed only in the creek bed directly adjacent to Miller Avenue. The wetland as a whole is therefore shown as probable wetland ("PW") on the study area map.

As shown above, dominant vegetation in the wetland consists of willows and reed canarygrass; associated species include *Salix sitchensis*. Vegetation in the southwest corner of the wetland, adjacent to Highway 101, is a solid stand of *Phalaris arundinacea*. A portion of the south edge of the wetland is heavily used by cattle and is eroded to bare ground.

Adjacent uplands include urban development north of the creek; the upper banks of the creek near Miller Avenue, which are vegetated by *Alnus rubra*, *Rubus discolor, Convolvulus sepium*, and *Polygonum* sp.; *Rubus discolor* thickets at many of the wetland margins; and grazed pasture south of the wetland.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland code:	HOQ1
Datasheet(s):	HOQ1-1 (PFOC, OBS), HOQ1-2 (PEMC, OBS), HOQ1-3 (PEMC, OBS), HOQ1-4 (UPL), HOQ1-63 (PSSC), HOQ1-64 (PEMC), HOQ1-65 (UPL), HOQ1-66 (UPL), HOQ1-67 (PFOC), HOQ1-78 (PSSC, OBS).
Field verification date:	8/30/95
Location:	Hoquarton Slough complex west of Hwy 101, including Stillwell Slough
Legal:	T1S R10W Sec 25 N 1/2 and Sec 24 SE 1/4; tax map 1S 10 25 lots 100 and 200; map 1S 10 25AA lots 100, 200, 600, 1000, 1300, 1400, 1500, and 1501; map 1S 10 25AC lots 100, 4500, 4501, 4600, and 4601; map 1S 10 24D lots 2200, 2300 and 2400
Size:	84.6 A
NWI classification:	PFOA, PFOC, R2UBH, PEMFx, PEMCx, PSSC
Hydrologic basin:	Hoquarton Slough
Soil:	Coquille and Brenner silt loams Typical colors: A horizon: 10YR 3/2 very moist to saturated silt loam AB or BW1 horizon: 2.5Y 3/2 very moist to saturated silt loam, common, distinct 10YR 3/3 to 7.5YR 3/4 mottles BW or BW2 horizon: 10Y 3/0 to 2.5Y 3/1 saturated silt loam, few to common gley mottles
Topography:	Low alluvial terrace and bottomland

Dominant vegetation, forested wetlands (PFOC):

Tree layer:	**Shrub layer:**	**Herbaceous layer:**
Alnus rubra	*Rubus spectabilis*	*Lysichiton americanum*
Picea sitchensis	*Sambucus racemosa*	*Athyrium filix-femina*
	Salix lasiandra	*Oenanthe sarmentosa*

Dominant vegetation, shrub-scrub wetlands (PSSC):

Tree layer:	**Shrub layer:**	**Herbaceous layer:**
Alnus rubra	*Salix spp.*	*Typha latifolia*
		Carex obnupta
		Scirpus validus
		Phalaris arundinacea
		Juncus effusus

Dominant vegetation, emergent wetlands (PEMC):

Shrub layer:	**Herbaceous layer:**
Alnus rubra (scattered)	*Typha latifolia*
Salix spp.	*Carex obnupta*
	Scirpus validus
	Phalaris arundinacea
	Juncus effusus
	Ranunculus repens
	Agrostis tenuis

Comments:
This large wetland area is associated with Hoquarton Slough on the northwest side of Tillamook. A portion of it is shown on the city base map as "Stillwell Slough." It is composed of two sub-areas: *(continued next page)*

HOQ1 (continued)

1. Forested wetland and wetland / upland mosaic adjacent to Hoquarton Slough, bordered on the east by Highway 101 development, on the north by pastureland in Section 24, on the west and southwest by pasture and agricultural land adjacent to the Trask River, and on the south by the Tillamook urban area;

2. Scrub-shrub and emergent wetlands in disturbed areas just north of the Tillamook urban area (N of city shops, First Ave., and Front Ave. and west to pasture N of hospital) and on margins of wooded area

Due to lack of landowner permission or logistical limitations, portions of this wetland could not be accessed for soil and hydrology sampling. Datasheets for these areas are marked "OBS", indicating an offsite observational data point. For these areas, dominant plant species (and, if possible, hydrology) were recorded from offsite. If offsite observation showed that the site met the vegetation and hydrology criteria for wetland, and soils are mapped as hydric, the area is shown as wetland on the study area map. If vegetation was hydrophytic and soils are mapped as hydric, but hydrology could not be observed from offsite, the area is shown as "PW" or probable wetland on the map.

This wetland is forested in general, but in the southeast portion urban development, fill activity, and an abandoned log pond have created some areas of scrub-shrub and emergent wetland. A portion of the wetland near Highway 101 has been cleared and is currently grazed. Along Hoquarton Slough, riverine wetlands classified as R2UBH are shown on the NWI map; areas of emergent vegetation near the abandoned log pond are shown as PEMFx and PEMCx. Neither the riverine wetlands nor the old log pond could be accessed for this study; they are shown as probable wetlands on the map.

Portions of the wetland (marked "mosaic" on maps) form a complex mosaic with upland areas. In the forested mosaic, upland areas are dominated by *Alnus rubra*, *Picea sitchensis*, *Rubus spectabilis*, *Tolmeia menziesii*, *Polystichum munitum*, and *Sambucus racemosa*; soils (Brenner silt loams) show only faint mottling in layers above 10". In the scrub-shrub mosaic, upland areas are dominated by *Phalaris arundinacea*, *Agrostis tenuis*, *Cytisus scoparius*, and *Rubus discolor*, with associated species including *Plantago lanceolata* and *Anthoxanthum odoratum*. From offsite observation, soils in the upland areas adjacent to scrub-shrub wetlands appears to consist of fill material. These filled areas are near the urban area (N of city shops and First and Front Avenues).

Other adjacent uplands include: 1) portions of the banks of Hoquarton Slough, which are probably dewatered by the slough and are dominated by *Picea sitchensis* in the tree layer; 2) pastureland to the north (in Section 24) and to the south (lot 1); and 3) urban areas to the south. The upland pasture to the north is dominated by *Agrostis tenuis* and *Lolium* sp.; soils here are Nehalem silt loam, 10YR 3/2 to 10YR 3/4 with no mottling.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: HOQ2
Datasheet: HOQ2-76 (PEMCf), HOQ2-77 (UPL), HOQ2-5 (PEMC, OBS)
Field verification date: 8/30/95
Location: Pasture north of hospital; lot 402 west of hospital parking lot
Legal: T1S R10W Sec. 25 SW 1/4 of NE 1/4; tax map 1S 10 25 lots 400 and 402; map 1S 10 25AC lot 4600
Size: 1.1 A
NWI classification: PEMCf, PEMC
Hydrologic basin: Hoquarton Slough
Soil: Coquille silt loam
Typical colors:
0-11" (Ap): 10YR 3/2 slightly moist silt loam; common, distinct 7.5YR 3/4 mottles
11-20" (Bw1):2.5Y 3/2 sl. moist silt loam, common, prominent 5YR 3/4 mottles
20"+ (Bw2): 5Y 3/2 moist silt loam, common, prominent 5YR 3/4 mottles
Topography: alluvial terrace

Dominant vegetation:
Herbaceous layer:
Phalaris arundinacea
Alopecurus geniculatus
Agrostis tenuis
Juncus effusus

Comments:
Two areas comprise this wetland: a depression within the tilled field north of the hospital, currently being used as a pasture; and a low area within a filled lot (lot 402) just west of the hospital. *Alopecurus geniculatus* provides evidence of inundation within the pasture. Associated species in the pasture include *Rumex* sp., *Potentilla pacifica*, and *Trifolium repens*; associated species in lot 402 include *Salix* spp., *Cornus stolonifera*, *Alnus rubra*, and *Rubus discolor* near the margins of the wetland.

Due to lack of landowner permission, a portion of this wetland (the area west of the hospital, in lot 402) could not be accessed for soil and hydrology sampling. The datasheet for this area is marked "OBS", indicating an offsite observational data point. Offsite observation showed hydrophytic vegetation, and mapped soils for the general area are shown as hydric, so the area is shown as "PW" or probable wetland on the map.

Adjacent uplands include the urban areas to the south, and the remainder of the pasture north of the hospital,, which appears to be dewatered by ditches on the south, east and north sides as well as by two shallow ditches within the field itself. Upland portions of this field are dominated by *Phalaris arundinacea*, *Alopecurus pratensis*, and *Festuca arundinacea*. Soils in these upland areas are 10YR 3/3 slightly moist Nehalem silt loams with no mottling above 14" and few, distinct 7.5YR 4/6 mottles below 14".

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	HOQ3
Datasheet:	HOQ3-79 (UPL), HOQ3-80 (PEMCf), HOQ3-83 (PSSC)
Field verification date:	8/30/95 and 8/31/95
Location:	N and S side of Hoquarton Slough, east of Hwy 101 and N of S.P. railroad line
Legal:	T1S R9W Sec. 30 NW 1/4; tax map 1S 9 30BB lots 100, 200, 600, 800, 900, and 1500; map 1S 9 30BC lots 100 and 200; map 1S 9 30BD lot 100
Size:	35.3 A
NWI classification:	R2UBH, PSSC, PFOA, PFOC, PEMC
Hydrologic basin:	Hoquarton Slough
Soil:	Brenner and Coquille silt loams
	Typical colors, Coquille series:
	0-4" (Ap): 10YR 3/2 slightly moist silt loam; mottles too faint to distinguish
	4-13" (AB): 10Y 3-2.5/1 moist silt loam; many, prominent 5YR 3/4 mottles
	13->22"(Bw): 2.5Y 3/2 very moist silt loam; many, prominent 7.5YR 3/4 mottles and 5GY 3/1 mottles along roots
	Typical colors, Brenner series:
	0-7" (Ap): 2.5Y 3/2 very moist silt loam; common, distinct 7.5YR 3/4 and 7.5YR 4/6 mottles
	7-13" (AB): 5Y 3/2 saturated silt loam; common, prominent 7.5YR 4/6 mottles
	13->20" (Bw): 10Y 3/0 saturated silt loam, no mottles
Topography:	Alluvial terrace and bottomland

Dominant vegetation, scrub-shrub areas (PSSC):

Tree layer:	**Shrub layer:**	**Herbaceous layer:**
Alnus rubra	*Sambucus racemosa*	*Carex obnupta*

Dominant vegetation, wet pasture (PEMC):
Herbaceous layer:
Alopecurus geniculatus
Juncus effusus

Comments:
Much of this wetland is similar to HOQ1, but it is hydrologically separated from HOQ1 by Highway 101. It is forested in general, but portions are scrub-shrub wetland (PSSC), and on the north edge a portion is cleared and grazed (PEMCf). Along Hoquarton Slough, riverine wetlands classified as R2UBH and adjacent forested wetlands (PFOA, PFOC) are shown on the NWI map; these areas could not be accessed for this study. Large areas of the forested wetland (marked "mosaic" on maps) appear to form a complex mosaic with upland areas. Upland areas within the mosaic are probably similar to the upland areas in the HOQ1 mosaic (see HOQ1 Summary Sheet).

Other adjacent uplands include: 1) upland pasture north of the grazed pasture wetland in lot 100; 2) cleared and tilled land west of Del Monte Avenue and north of the railroad tracks; 3) areas of urban fill along Highway 101 and south of the railroad; and 4) portions of the banks of Hoquarton Slough, which are probably dewatered by the slough and are dominated by *Picea sitchensis* in the tree layer.

The upland pasture in lot 100, dominated by *Dactylis glomerata* and *Festuca arundinacea*, was underlain by slightly moist Nehalem silt loam soil, with color ranging from 10YR 3/3 to 10YR 3/4 and no mottles from the surface to >25".

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	HOQ4
Datasheet:	HOQ4-84 (PFOC, OBS)
Field verification date:	8/31/95
Location:	Wooded area N of 1st Street (Wilson River Hwy.) and S of S.P. railroad line, between Del Monte Avenue and Hwy. 101
Legal:	T1S R9W Sec. 30 NW 1/4, tax map 1S 9 30BC lots 1300, 1400, 1500, 1600; tax map 1S 9 30BD lots 200, 201, 300, 401
Size:	2.1 A
NWI classification:	PFOA, PFOC
Hydrologic basin:	Hoquarton Slough
Soil:	Coquille and Brenner silt loams
Topography:	Low alluvial terrace

Dominant vegetation:

Tree layer:	**Shrub layer:**	**Herbaceous layer:**
Alnus rubra	*Salix sitchensis*	*Phalaris arundinacea*
		Carex obnupta
		Lysichiton americanum

Comments:
This wetland occupies depressions within the wooded area south of the railroad tracks and north of First Street, west of Del Monte Avenue. Some of the area appears to be a wetland / upland mosaic. The wetland is widest at the east end and tapers to a linear drainage west of Madrona Avenue. Associated plant species in the wetland include *Oenanthe sarmentosa, Sambucus racemosa, Typha latifolia, Cornus stolonifera,* and *Scirpus microcarpus*.

The datasheet for this area is marked "OBS", indicating an offsite observational data point. Offsite observation showed hydrophytic vegetation, and mapped soils are shown as hydric, so the area is shown as "PW" or probable wetland on the study area map.

Adjacent upland woods are dominated by *Picea sitchensis, Acer macrophyllum,* and *Rubus discolor*; other species present include *Alnus rubra, Hedera helix, Polystichum munitum,* and *Pteridium aquilinum*.

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name: JAC1
Datasheet: JAC1-24 (PEMC), JAC1-25 (PSSC, OBS), JAC1-26 (UPL)
Field verification date: 8/30/95
Location: Pastureland and forested wetland along upper reaches of Jack Creek
Legal: T1S R9W Sec 29; tax map 1S 9 29 lots 1000 and 1100
Size: 8.7 A
NWI classification: PFOA, PEMC
Hydrologic basin: Jack Creek
Soil: Hebo silty clay loam
Typical colors:
0-10" (Ap): 10YR 2/1 moist to very mosit silty clay loam, few distinct 7.5YR 3/4 mottles
10-18" (AB): 10YR 3-2/1 very moist silty clay loam, common distinct 5YR 3/3 mottles
18-28" (Bt): 10YR 3/1 & 4/1 very moist silty clay loam+, many prominent 10YR 4/6 mottles
28"+ (Bt): 2.5Y 4/2 very moist silty clay, many prominent 10YR 5/8 mottles
Topography: Alluvial terrace

Dominant vegetation:
Herbaceous layer:
Ranunculus repens
Juncus effusus
Holcus lanatus

Comments:
This wetland follows the upper drainage of Jack Creek through pastureland and then into scrub-shrub and forested wetland in tax lot 1100 (tax map 1S 9 29). The pasture is actively grazed. Portions of the emergent wetland are fed by seeps and springs that also feed the forested wetland to the south. Associated species in the emergent wetland include *Lotus corniculatus*, *Poa* sp., *Trifolium repens*, and *Juncus articulatus*.

Due to lack of landowner permission for access, the scrub-shrub and forested portion of this wetland found in lot 1100 could not be accessed for soil and hydrology sampling. The datasheet for this area (JAC1-25) is marked "OBS", indicating an offsite observational data point. Offsite observation showed hydrophytic vegetation dominated by *Salix piperi*, *Salix hookeriana*, *Ranunculus repens*, and *Lysichiton americanum*. Mapped soils are shown as hydric, and soil saturation to the surface was visible from the observation point, so the area is shown as "W" or wetland on the study area map.

Adjacent uplands consist mainly of pastureland, with a small area of upland forest on the northwest corner of lot 1100. Adjacent upland pasture is dominated by *Festuca arundinacea*, *Agrostis tenuis*, and *Dactylis glomerata*, with associated species including *Trifolium repens*, *Cirsium vulgare*, *Senecio jacobaea*, and *Lotus corniculatus*. Soils in the upland pasture are 10YR 2/1 to 2/2 unmottled silty clay loam in the surface 15", 7.5YR 2/0 silty clay loam from 15 to 20", and 10YR 3/4 silty clay loam below 20", with few distinct 2.5YR 3/6 mottles below 26".

Tillamook Local Wetland Inventory Summary: WSB Study

Wetland name:	TRA1
Datasheet:	TRA1-58 (UPL), TRA1-59 (PEMC), TRA1-60 (PUBFx, OBS), TRA1-61(UPL), TRA1-62 (PEMCx)
Field verification date:	8/29/95
Location:	Wetlands draining to Trask River, south of Carnahan Park and W of Beachwood Ave.; and S of 9th St. between Elm and Beachwood
Legal:	T1S R10W Sec 25 SW 1/4; tax map 1S 10 25CA lots 3800, 3801, 3802, 3900 and 3908; map 1S 10 25 lot 1100; map 1S 10 25DC lot 100
Size:	9.7 A
NWI classification:	PUBFx, PSSC, PEMC, PEMCx
Hydrologic basin:	Trask River
Soil:	Brenner silt loam
	Typical colors in excavated wetland (old rock quarry, PUBHx and PSSCx):
	0-4" (Ap): 10YR 2/1 moist silt loam, mottles too faint to distinguish
	4-16" (B): 5Y 2.5/1 very moist silt loam, no mottles
	16": rock refusal
	Typical colors in former pasture (PEMC):
	0-8" (Ap): 10YR 3/2 silt loam, no mottles
	8-14" (B): 2.5Y 4/2 silt loam, many prominent 7.5YR 3/4 mottles
	14-20" (B): 5Y 4/2 silt loam, many prominent 5YR 4/6 mottles
	>20" (B): 2.5Y 4/2 silt loam, common, faint 10YR 3/3 mottles
Topography:	Alluvial terrace

Dominant vegetation, old rock quarry (PUBFx):

Shrub layer:	**Herbaceous layer:**
Salix sitchensis	*Juncus acuminatus*
	Carex obnupta
	Potentilla pacifica
	Juncus effusus
	mud flats

Dominant vegetation, former pasture and east end of old rock pit (PEMC):

Herbaceous layer:

Juncus effusus
Ranunculus repens
Festuca arundinacea
Carex obnupta
Potentilla pacifica

Comments:

The south (upstream) end of this wetland consists of an emergent swale running west through the currently grazed pasture south of 9th Street. West of Beachwood Ave. the drainage turns north; this portion is not currently grazed. As the drainage runs north it becomes scrub-shrub wetland. The north portion of the scrub-shrub wetland (just south of Carnahan Park) is an old rock quarry which was excavated to provide rock fill for Beachwood Avenue. In the old rock quarry, an artificial wetland has developed, with flora typical of natural palustrine wetlands in the area. Mud flats were exposed in the lowest portion of the wetland at the field date; a chain link fence runs along the property line between lots 3801 and 3800, bisecting the mud flats. The west portion of the excavated wetland is palustrine unconsolidated bed wetland, and the east portion is emergent wetland. From the old quarry, the wetland drains west through a ditch to the Trask River. In addition, there are emergent wetlands dominated by *Carex obnupta* along the north side of the ditch within Carnahan Park. *(continued next page)*

TRA1 (continued)

Due to lack of landowner permission, a portion of this wetland (the west portion of the old rock pit, PUBFx) could not be accessed for soil and hydrology sampling. The datasheet for this area is marked "OBS", indicating an offsite observational data point. From the offsite observation point, vegetation appeared hydrophytic, and positive indicators of wetland hydrology could be observed. In addition, soils are mapped as hydric. This area is therefore shown as wetland on the study area map.

Housing is being developed just east of this wetland along Beachwood Avenue. The wetland will provide excellent wildlife viewing opportunities for the occupants of these homes. The developer is applying a 50' setback from the wetland.

Adjacent uplands consist of upland pasture (adjacent to the emergent swale), and areas of urban fill east of the scrub-shrub wetland and the old rock pit. The upland pasture (datasheet TRA1-58) is dominated by *Festuca arunidinacea* and *Agrostis* sp., with associated species including *Cynosurus cristatus* and *Dactylis glomerata*. Soils in the upland pasture are unmottled Nehalem silt loams ranging in color from 10YR 3/2 in the surface layer to 2.5Y 3/2 below 20". The areas of urban fill are dominated by *Agrostis tenuis*, with associated species including *Festuca arundinacea*, *Plantago lanceolata*, *Holcus lanatus*, and *Anthoxanthum odoratum*.

APPENDIX 4: DATA SHEETS

TILLAMOOK, OREGON WETLAND INVENTORY Tmook - 2 w/ green copies

SITE DATA SHEET

T. 1S, R. 9 W, SW 1/4 of Sec. 29(CA) Tillamook County Tax Lot: 302 Site No.: C051-13 (PEMCx OBS)
Drainage Basin & Plot Location: Cojack Ck
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 13
Land Use & Condition: mitigation pond for retirement facility

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Eleocharis palustris	OBL	15	H	✓	VESC	OBL	<1	H	
JUBU	FACW	10	H	✓	GNUL	FACW	<1	H	
tiny yellow buttercup	?	<1	H		On cattail island:				
Polygonum persicaria	FACW	<1	H		JUEF	FACW	5	H	
JUEN	FACW	<1	H		SALU	OBL-FAC	5	S	
JUAR	OBL	<1	H		Ilex (pseudocaris?)	OBL?	<1	H	

Hydrophytic Vegetation? YES 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: (← 304) Ditch outlet to S, then W around vacant lot) is filled w/JUEF & some SPDO, JUAC;
the upland field is AGROST, HOLA, CYSC, ANOD, RUCR, some fill dirt

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated.	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Mapped soil listed as hydric
Comments:

HYDROLOGY

Landform/Topography: excavated depression Wetland Drainage Pattern: depression
Inundation and Depth: None in. Water Table & Depth: ___ in.
Hydrology Alteration: Adjacent homes to west, road to east
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines X Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Appears to have sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient positive indicators. Recently constructed.
Comments:

Date(s): 8-29-95 Field Investigator(s): LLL BD SPM

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ✓ No ____
W22)	% Cowardin classes present:	POW ____ PEM ✓ PSS ____ PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. ____ 25-50 ft. ✓ <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified ✓ Extensive modifications ✓ Hibernation Life.
F31)	Stream channel % shaded:	20%
H36)	Evidence of flooding?	Yes ____ No ✓ Describe ____
H37)	Outflow restricted?	Yes ____ No ✓
H38)	Inflow restricted?	No ✓ Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No ✓ Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA ____ ADA ____ Obs. only ✓ Barriers: ____
R49)	Trails/view areas?	Existing ✓ Potential ____ No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited ✓ Little/none ____
A53)	Urban landscape:	Open/natural ✓ Groomed ____ None ____
A54)	Visual detractors?	Yes ✓ No ____ A55) Easily removed? Yes ✓ No ____

From primary viewing area:

A56)	Odors:	Natural ✓ Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ✓ Heavy+natural ____ Heavy intrusive ____
A58)	View:	Whole/most of wetland ✓ Small portion ✓ Describe ____
A59)	No. of Cowardin classes visible:	2 or more ____ 1 ✓

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 (Index) Tillamook County Tax Lot: 700 Site No.: COJ1-14 (PEMC, OBS)
Drainage Basin & Plot Location: Corner of Fairgrounds across from #13 - Cojack Ck.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 14
Land Use & Condition: Ditch & low area surrounded by fields, fill, roads

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
SPDO	FACW	20	S	✓	RULA	FACW+		S	
CAOB	OBL	50	H	✓	RUDI	FACW		S	
EXEA	FACW		S		DECE	FACW		H	
RECA	-		S		LOCO	FAC	30	H	✓
CYSC	NL		S		JUEF	FACW		H	

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: soil listed as hydric in soil survey
Comments:

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: Depression
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration: Fill area to west
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? unknown Rationale:
Comments: Need verification of water table.

SUMMARY

Wetland? PW Rationale: observed veg., mapped soil, topographic setting, all support possible wetland. However, there is evidence of hydrology alteration.
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BD SPM

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No X
W22)	% Cowardin classes present:	POW ____ PEM ✓ PSS ✓ PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. ____ 25-50 ft. ____ <25 ft. ✓
F30)	Stream channel:	Natural ____ Partly modified ✓ Extensive modifications ____
F31)	Stream channel % shaded:	15
H36)	Evidence of flooding?	Yes ____ No ✓ Describe ____
H37)	Outflow restricted?	Yes ____ No ✓ culvert
H38)	Inflow restricted? unk	No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No ✓ Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA ____ ADA ____ Obs. only ____ Barriers: ____
R49)	Trails/view areas?	Existing ____ Potential ✓ No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited ____ Little/none ____
A53)	Urban landscape:	Open/natural ____ Groomed ✓ None ____
A54)	Visual detractors?	Yes ✓ No ____ A55) Easily removed? Yes ____ No ✓

full pile of gravel

From primary viewing area:

A56)	Odors:	Natural ✓ Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ✓ Heavy+natural ____ Heavy intrusive ____
A58)	View:	Whole/most of wetland ✓ Small portion ____ Describe small portion w/ fairgrounds & vehicles
A59)	No. of Cowardin classes visible:	2 or more ____ 1 ✓

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29(CA) Tillamook County Tax Lot: 3700 Site No.: COJ1-15 (UPL)
Drainage Basin & Plot Location: Cojack Ck - 412 Mohaly Loop Rd.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 15
Land Use & Condition: Pasture (1 cow) - sample point ~ 30' E. of Cojack Ck ditch

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
AGTE	fac	40	H	✓					
LOPE	facw	20	H	✓					
HOLA	fac	30	H	✓					
TRRE	fac	10	H						
RARE	facw	1	H						

Hydrophytic Vegetation? yes 2/3 = 67 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Not seeded in ~26 yrs - must of what grew - maybe seeds from hayed mowing (conversation w/owner, Mr. Severens)

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-10 in.	10 YR 2/2	—o—; SiL; dry/slightly moist
AB1	10-20 in.	10 YR 2/1	—o—; SiL+; moist
AB2	20-27 in.	10 YR 2/1	common faint 7.5 YR 4/4; SiCL moist
Bw	27+ in.	7.5 YR 2/0; 10 YR 3/2	many from 5YR 4/6; SiCL moist; conc.
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
at 27" ✓ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Quillayute silt loam Hydric Soils List:? No
Drainage Class: somewhat poorly Criteria Depth: 0 in.
Hydric Soil? no Rationale: lacks sufficient positive indicators, effectively drained
Comments:

HYDROLOGY when Mr. Severens digs post holes, he usually hits H_2O at ~30"

Landform/Topography: low alluvial Terrace Wetland Drainage Pattern: no
Inundation and Depth: none in. Water Table & Depth: apparent, 20 in.
Hydrology Alteration:
Other Indicators: ✓ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? no Rationale: lacks sufficient positive indicators
Comments: above the ditch & low right

SUMMARY

Wetland? NO Rationale: soil and hydrology parameters lack pos. indic.
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BD

Ditch at N end was cleaned out 2 yrs ago for subdivision, but only to end of development, so it doesn't drain well to S. Ditch here covered w/ RUDI so can't see anything.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes _____ No _____
W22) % Cowardin classes present: POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26) Urban veg. buffer (unmowed): >50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30) Stream channel: Natural _____ Partly modified _____ Extensive modifications _____
F31) Stream channel % shaded: _____
H36) Evidence of flooding? Yes _____ No _____ Describe _____
H37) Outflow restricted? Yes _____ No _____
H38) Inflow restricted? No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42) Hazards to public? No _____ Yes _____ Describe _____
P44) Access exist/feasible: Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49) Trails/view areas? Existing _____ Potential _____ No existing or potential _____
A52) Rural area visual contrast: Significant _____ Limited _____ Little/none _____
A53) Urban landscape: Open/natural _____ Groomed _____ None _____
A54) Visual detractors? Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:
A56) Odors: Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57) Noise: Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58) View: Whole/most of wetland _____ Small portion _____ Describe _____
A59) No. of Cowardin classes visible: 2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, NE 1/4 of Sec. 28(AB) Tillamook County Tax Lot: 503 Site No.: COL1-69 (PSS)
Drainage Basin & Plot Location: drainage thru Kennedy's land, NE part of Tax Lot
Normal Circumstances? Yes Atypical Situation? No Problem Area? No Sample Point: 69 (no # 68)
Land Use & Condition: bushy, formerly cleared drainage

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Cornus Stolonifera	facw	15	S		Salix hookeriana	FACW-	30	S	✓
Rosa sp. FACW-Facu(est)		10	S		Oesa	obl	10	H	
Salix	FACW	50	S	✓					
Spdo	facw	20	S	✓					
Rare	facw	75	H	✓					

Hydrophytic Vegetation? Yes 3/4 = 75 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: some parts of drainages have little overstory, Oesa solid herb layer. Nearby areas incl. ponding 24" w/ Cornus & Salix shrub layer, bare ground below

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-10 in.	2.5Y 2.5/1	too faint to list. M. sil
Bw1	10-16 in.	2.5Y 3/1	C d 7.5YR 3/4 M sil +
Bt1	16-19 in.	2.5Y 3/1	m, p 7.5YR 4/6 M sicL
Bt2	19->22 in.	5Y 4/1	" " " "
	in.		

Other Indicators: ___ None X Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? yes
Drainage Class: Poorly-drained Criteria Depth: 12 in.
Hydric Soil? y Rationale: has sufficient pos. indi.
Comments:

HYDROLOGY

Landform/Topography: broad drainageway Wetland Drainage Pattern: yes
Inundation and Depth: evident 2-4 in. Water Table & Depth: evident at surface in.
Hydrology Alteration: formerly ditched, but undisturbed for >10 yrs.
Other Indicators: ___ None ___ Sediment deposits X Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 8 in.
Wetland Hydrology? yes Rationale: has suffic. pos. indic.
Comments:

SUMMARY

Wetland? yes Rationale: all three parameters have pos. indic.
Comments:

Date(s): 8/30/95 9am Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No X
W22) % Cowardin classes present: POW ____ PEM 25 PSS 75 PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. ____ <25 ft. ____ N/A
F30) Stream channel: Natural ____ Partly modified X Extensive modifications ____
F31) Stream channel % shaded: 50%
H36) Evidence of flooding? Yes X No ____ Describe ____
H37) Outflow restricted? Yes X No ____
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential ____ No existing or potential X at back of lot
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: Open/natural ____ Groomed ____ None ____ N/A
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____ N/A

From primary viewing area:

A56) Odors: Natural ____ Unnatural, occasional X Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland ____ Small portion X Describe very brushy, forest around wetland
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, NE 1/4 of Sec. 28(AB) Tillamook County Tax Lot: 503 Site No.: COL-70 (UPL)
Drainage Basin & Plot Location: 250' E of Olson Rd, E of vacant lot where Kennedy's lot extends to Olsen Rd.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 70
Land Use & Condition: unmowed, ungraged

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Agro.	FAC	100	H	✓					
Rubi	FACU	30	S	✓					
Arod	FACU	10	H						

Hydrophytic Vegetation? No 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: edges of meadow: spruce (both), salix, cherry

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-18 in.	10YR 2/2	none SM SiL
AB	18->22 in.	"	c, f 10YR 3/2 SM SiL
Bw	>22 in.	10YR 3/2	c, f 7.5YR 3/3-4 M SiL Top of water table
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Quillayute s.lt loam Hydric Soils List:? No
Drainage Class: Somewhat Poorly Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient indicators
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: Apparent at 22 in.
Hydrology Alteration:
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? NO Rationale: Lack sufficient positive indicators
Comments:

SUMMARY

Wetland? NO Rationale: Lacks sufficient indicators
Comments:

Date(s): 8/30/95 9:30 am Field Investigator(s): PS ZB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, NE 1/4 of Sec. 28(AB) Tillamook County Tax Lot: 503 Site No.: COL1-71 (UPL)
Drainage Basin & Plot Location: forest, SE portion of Kennedy property, Colby Crk drainage
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 71
Land Use & Condition: Vacant, undist. forest >10 yrs.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
TSHE	FACU-	60	T	✓	HEHE	NL	5	H	
RUSP	Fact	10	S	✓	COCO Corylus cornuta	FACU	5	S	✓
MADI	FAC	30	H	✓	Holly		T	Sap.	
CAOB	OBL	2	H		RUDI	FACU	10	S	✓
POMU	FACU	5	H		PISI	FAC	15	T	

bare ground 30%
Hydrophytic Vegetation? NO 7/15 = 40 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:
other upl veg. include SARA, POMU, holly, Eng. Ivy

SOIL

Horizon	Depth		Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Oa	3-0	in.	duff	—
A	0-10	in.	10YR 3/2	none, SiL, sl. moist
Bw	10-24	in.	7.5YR 2.5/2	" " " "
		in.		
		in.		

Other Indicators: ✓ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Quillayute silt loam Hydric Soils List:? N
Drainage Class: Mod Well Drained Criteria Depth: 0 in.
Hydric Soil? N Rationale: Lacks sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: alluv. Terrace Wetland Drainage Pattern: no
Inundation and Depth: No in. Water Table & Depth: >24 in.
Hydrology Alteration: slight downgradient ditching (old)
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 8 in.
Wetland Hydrology? N Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? N Rationale: All three parameters lack sufficient positive indicators
Comments:

Date(s): 8-30-95 / 09:45 Field Investigator(s): BS, LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, NE 1/4 of Sec. 28 (AB) Tillamook County Tax Lot: 503 Site No.: COLI-72 (PEM/C)
Drainage Basin & Plot Location: Colby Creek, south edge of tax lot
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 72
Land Use & Condition: vacant, old drainageway

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
PHAR	FACW	100	H	✓					
COAR	NL	2	H						

Hydrophytic Vegetation? yes 1/1 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: adj. veg. is mostly RUDI, plus small mounds of salix, SPEA, prunus

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-8 in.	2.5Y 2.5/1	few, distinct 10YR 4/4, SiL, moist
AB	8-12 in.	10YR 3/2	com, dist 10YR 4/6, SiL, moist
Bt1	12-16 in.	" 3/1	many, dist, 10YR 4/6, SiCL, moist
Bt2	16-24 in.	2.5Y 3/1	many, prom., 7.5YR 4/6 (LB note: moist SiCL?)
	in.		

Other Indicators: ✓ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Y
Drainage Class: Poorly drained Criteria Depth: 18 in.
Hydric Soil? yes Rationale: has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: swale, sloping to west Wetland Drainage Pattern: yes + ~~evident~~
Inundation and Depth: apparent, 1-3 in. Water Table & Depth: at surface in.
Hydrology Alteration: formerly ditch, >10 yrs. ago
Other Indicators: ✓ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 8 in.
Wetland Hydrology? yes. Rationale: has sufficient positive indicators
Comments:

SUMMARY

Wetland? yes Rationale: all three parameters have sufficient pos. ind.
Comments:

Date(s): 950830/10:20 Field Investigator(s): PS, LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, NE 1/4 of Sec. 28(AB) Tillamook County Tax Lot: 1100 Site No.: COL1-73 (WPL)
Drainage Basin & Plot Location: Colby Crk, S edge of tax 107
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 73
Land Use & Condition: Vacant mowed hillside 50' S of drainage @ SP 72

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Rare	FACW	60		X	Crepis capillaris	FACU	20		X
Coar	NL	<5							
Hola	FAC	10							
Fpwa	FACW-	5							
Phar	FACW	15							

Hydrophytic Vegetation? NO 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: marginal

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-30 in.	10YR 2/1	none
	in.		
	in.		
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Ginger silt loam Hydric Soils List:? No
Drainage Class: Moderately Well Drained Criteria Depth: 6 in.
Hydric Soil? No Rationale: Lacks sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: North facing slope Wetland Drainage Pattern: no
Inundation and Depth: none in. Water Table & Depth: not apparent in.
Hydrology Alteration: no
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: All 3 parapeters lack sufficient indicators.
Comments: Contrast to wetland SP 72

Date(s): 8/30/95 10:45 Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Sec. 29 Index) **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 28 Tillamook County Tax Lot: 201 Site No.: COL2-74 (085)
Drainage Basin & Plot Location: Sharp Crk., 20' W of Schiks Rd (McCormack Loop Rd) PEM
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 74
Land Use & Condition: mowed, vacant

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Algae (Hapsc. genic.)	obl	70	H	✓					
Rumex crispus	fac+	20	H	✓					
Rorre	FACW	15	H						
Lomu	NL	5	H						
Polygonum sp.	–	<5	H						

Hydrophytic Vegetation? Yes 2/2 =100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	offsite –	not evaluated
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Need Verification.
Comments: no access

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: swale
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration: Hiway to North
Other Indicators: x None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probable Rationale: Need verification
Comments: no access

SUMMARY

Wetland? PW Rationale: Vegetation parameter has sufficient indicators.
Comments: low topographic setting, well defined swale
Soil and Hydrology need to be verified

Date(s): 8/30/95 Field Investigator(s): PS LD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ mowed
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No ____ Describe ____
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: Open/natural ____ Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY (Sec 29 Index) **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 28 Tillamook County Tax Lot: 201 Site No.: COL2-75 (OBS) PEMC
Drainage Basin & Plot Location: Upper end of Medium Creek
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 75
Land Use & Condition: Hay field, probably ag. use > 50 yrs.
Small 12" culvert under road

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Hola	FAC	50	H	✓	Gnpa	FAC+	2	H	
COK. Glyceria sp	OBL-FACW(a)	25	H	✓	Agte	FAC	5	H	
Junf	facw	1	H		Spergula arvensis			H	
Rumex crispus	FACW	1	H						
Rore	facw	5	H						

Hydrophytic Vegetation? Yes! 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Observation point - not evaluated.	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Mapped as Ginger silt loam, which may have hydric inclusions of Hebo SICL Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Needs Verification
Comments: no access

HYDROLOGY

Landform/Topography: Swale, sloping to NW Wetland Drainage Pattern: yes
Inundation and Depth: apparent 1-4 in. in. Water Table & Depth: apparent at surface in.
Hydrology Alteration: yes, upgradient ring interrupted
Other Indicators: ___ None ___ Sediment deposits X Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres (incl. matted vegetation.)
Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? PW Rationale: All parameters have sufficient indicators; soil needs to be verified.
Comments:

Date(s): 950830 / 1155 Field Investigator(s): LB, PS

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ ag land
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural X Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: 0 intermittent - winter drainage swale
H36) Evidence of flooding? Yes X No ____ Describe veg. indicative of flooding
H37) Outflow restricted? Yes ____ No X (GNPA)
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: Open/natural ____ Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____ Hwy to N
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 19(c) Tillamook County Tax Lot: 902 Site No.: DOU1-50 (UPL)
Drainage Basin & Plot Location: Gentle S. facing S. of Hall Slough, 100' E of fence line to West.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 50
Land Use & Condition: Grazed and plowed field. Gently sloping south

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
TRRE	FAC	95	H	✓					
LOMU (Lotus multi.)	NL	10	H						
RUOB	FAC	5	H						

Hydrophytic Vegetation? YES 1/1 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Grazed · lush vegetation

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-12 in.	10YR 3/3	None, silt loam, slightly moist
BW1	12-25 in.	10YR 3/4	
BW2	25-40 in.	10YR 3/3	Few, faint, 7.5YR 3/3, silt loam, moist
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? NO
Drainage Class: MODERATELY WELL DRAINED Criteria Depth: 0 in.
Hydric Soil? NO Rationale: Lacks sufficient positive indicators in criteria depth.
Comments:

HYDROLOGY

Landform/Topography: Low Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: NO in. Water Table & Depth: Apparent 25 in.
Hydrology Alteration: nearby downgradient development
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators in criteria depth.
Comments:

SUMMARY

Wetland? No Rationale: Soil and hydrology parameters lack sufficient positive indicators.
Comments:

Date(s): 8/28/95 Field Investigator(s): PS/LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 19(c) Tillamook County Tax Lot: 902 Site No.: 2001-51 (PEMC+
Drainage Basin & Plot Location: same as SP50, but 1' lower elevation, 100' south
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 51
Land Use & Condition: Grazed and plowed field.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
RUOB	FAC	15	H	✓	POAV	FACW-	<5	H	
TRRE	FAC	30	H	✓	ROCU	FACW	<5	H	
POPE Polygonum persic.	FACW	3	H		GNPA	FACT	<5	H	
(wheat) TRAE	NL	10	H	✓	POPA	OBL	<5	H	
RARE	FACW	<5	H						

Hydrophytic Vegetation? Yes 2/3 = 67 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Lower ground consist of mostly wheat, wheat and trifolium probably planted.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-10 in.	2.5Y 3/2	Common, faint, 10YR 3/4, s.i.l. loam, Dry
AB	10-17 in.	" "	Common, Distinct, 10YR 4/6, s.i.l. loam, slightly moist
Bw	>17 in.	5Y 3/2	" , 7.5YR 3/3, s.i.l. loam, very moist
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille silt loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators in criteria depth.
Comments: Few gleyed mottles, too

HYDROLOGY

Landform/Topography: Low Alluvial Terrace Wetland Drainage Pattern: Broad Depression
Inundation and Depth: Yes in. Water Table & Depth: Apparent at 17 in.
Hydrology Alteration: Slight downgradient urban development
Other Indicators: ___ None X Sediment deposits algal ___ Water-stained leaves
___ Drift lines ___ Water marks moto ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 8 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators in criteria depth.
Comments: plowed field -- Some indications of dried algae.

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators
Comments: Former pasture, plowed after 1992, thus area considered FWP

Date(s): 8-28-95 Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? (Yes) X No ____
W22) % Cowardin classes present: POW ____ (PEM) ____ PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____ agric. (grazed)
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes X No ____ Describe algal mats
H37) Outflow restricted? Yes ____ No ____
H38) Inflow restricted? No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA feas. ADA view Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none X
A53) Urban landscape: Open/natural ____ Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural moo! Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10W, SE 1/4 of Sec. 24 (D) Tillamook County Tax Lot: 1904 Site No.: DOU2 - 81 (PEMC)
Drainage Basin & Plot Location: Dougherty Slough, 400' South of Werner Rd.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: S1
Land Use & Condition: grazed pasture

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Alge	obl	30	H	✓					
Juef	FACW	10	H	✓					
Popa	obl	8	H	✓					
Rare	FACW	<5	H	✓					

Hydrophytic Vegetation? Yes 4/4 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-11 in.	10YR 3/2	c/d 7.5YR 3/4 mo SM SiL
A	11-16 in.	"	c/p 5YR 3/4 mo SM SiL
Bw	16+ in.	10YR 4-3/3	" " " M SiL
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille silt loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: ___ in.
Hydric Soil? Yes Rationale: Has sufficient indicators
Comments:

HYDROLOGY

Landform/Topography: low alluvial Terrace Wetland Drainage Pattern: Depressions
Inundation and Depth: none in. Water Table & Depth: surface in.
Hydrology Alteration: none
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient indicators; more Popa, some Carb in lower spots in wetland.
Comments:

Date(s): 8/31/15 11:30 am Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes X No ____
W22)	% Cowardin classes present:	POW ____ PEM X PSS ____ PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. X 25-50 ft. ____ <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified ____ Extensive modifications ____
F31)	Stream channel % shaded:	____
H36)	Evidence of flooding?	Yes ____ No X Describe ____
H37)	Outflow restricted?	Yes ____ No X
H38)	Inflow restricted?	No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No X Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49)	Trails/view areas?	Existing ____ Potential X No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited X Little/none ____
A53)	Urban landscape:	Open/natural X Groomed ____ None ____
A54)	Visual detractors?	Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural X (assuming cows are natural) Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58)	View:	Whole/most of wetland X Small portion ____ Describe ____
A59)	No. of Cowardin classes visible:	2 or more ____ 1 X

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET** (cont.)

T. 1S, R. 10 W, SE 1/4 of Sec. 24 (D) Tillamook County Tax Lot: 1904 Site No.: DOU2-82
Drainage Basin & Plot Location: 400ft S of Werner Rd, Wedge of tax lot 1904,
Normal Circumstances? Y Atypical Situation? N Problem Area? ____ Sample Point: 82
Land Use & Condition: grazed pasture
Dougherty SI. drainage ←

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Agte	FAC	30	H	X					
Fear	FAC-	35	H	X					
Dagl	FACU	10	H						

Hydrophytic Vegetation? NO 1/2 = 50% % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0 - 15 in.	10YR 3/3	none SM SiL
Bw1	15-22 in.	10YR 3/4	" M SiL
Bw2	22- in.	10YR 3/3	f, d 7.5YR 3/4 mo, + f, d 2.5Y 4/3 mo, M SiL
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? NO
Drainage Class: somewhat poorly Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Low alluvial Terrace Wetland Drainage Pattern: NO
Inundation and Depth: none in. Water Table & Depth: not apparent in.
Hydrology Alteration: non
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ____ in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: All parameters lack sufficient indicators
Comments:

Date(s): 8/31/95 12pm Field Investigator(s): PS LB

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 19(B) Tillamook County Tax Lot: 501 Site No.: HAL1-52 (PEMC OBS)
Drainage Basin & Plot Location: N of Wilson R. Loop Rd; just NE of Cornet
Normal Circumstances? X Atypical Situation? N Problem Area? N Sample Point: 52
Land Use & Condition: abandoned field E of Silo Inn; willows coming in

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Juncus effusus	facw	<5	H		Salix sp.	FAC-FACW*(est)	15	S	X
Fesr	fac-	50	H	X	Phar	FACW	<5	H	
Agrostis tenuis	fac	40	H	X					
Lotus corniculatus	fac	30	H	X					
Caob	obl	5	H						

Hydrophytic Vegetation? yes 3/4 = 75 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: many young willow saplings. Phar only in patches. W side has lots of Phar

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	offsite -	not evaluated
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam (may have hydric inclusions) Hydric Soils List:? No
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Need Verification
Comments: can't sample - no access

HYDROLOGY

Landform/Topography: Low Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: Unknown in. Water Table & Depth: Unknown in.
Hydrology Alteration: none
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 19 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probable Rationale: Need Verification
Comments: no access

SUMMARY

Wetland? Probable Rationale: Vegetation parameter has positive indicators.
Comments: Soil and hydrology should be checked.

Date(s): 8/24/95 3 pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No ____ unknown
W22)	% Cowardin classes present:	POW ____ PEM X PSS X PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. X 25-50 ft. ____ <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified ____ Extensive modifications ____
F31)	Stream channel % shaded:	____
H36)	Evidence of flooding?	Yes ____ No ____ Describe unknown
H37)	Outflow restricted?	Yes ____ No ____ unknown
H38)	Inflow restricted?	No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No X Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA X ADA view Obs. only ____ Barriers: ____
R49)	Trails/view areas?	Existing ____ Potential X No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited X Little/none ____
A53)	Urban landscape:	Open/natural ____ Groomed ____ None ____
A54)	Visual detractors?	Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____
A58)	View:	Whole/most of wetland X Small portion ____ Describe ____
A59)	No. of Cowardin classes visible:	2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 19(B) Tillamook County Tax Lot: 700 Site No.: HAL2-53 (PEMC OBS)
Drainage Basin & Plot Location: S side of Wilson R. Loop Rd., E of Cornet Store.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 53
Land Use & Condition: unmowed, ungrazed swale directly E of Cornet.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Pher	FACW	40	H	✓					
Juef	FACW	50	H	✓					
Rare	FACW	30	H	✓					
Loco	FAC	10	H						

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: E of swale: Fear meadow. Veg. done remote: no access. wetland veg. boundary is gradual, wide transition area.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nestucca silt loam, but may have hydric inclus. Hydric Soils List:? No
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Need Verification
Comments: no access

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: yes - swale
Inundation and Depth: Unknown in. Water Table & Depth: — in.
Hydrology Alteration: none
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probable Rationale: Need verification
Comments: no access, water source roof + pkg lot of Cornet.

SUMMARY

Wetland? Probable Rationale: Vegetation has positive indicators
Comments: Soil and hydrology should be checked.

Date(s): 8/28/95 3:30 pm Field Investigator(s): LB PS

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No ____ unknown
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No ____ Describe unknown
H37) Outflow restricted? Yes ____ No ____ "
H38) Inflow restricted? No ____ Yes, can be remedied ____ " Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA view Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none X
A53) Urban landscape: Open/natural ____ Groomed ____ None unfenced
A54) Visual detractors? Yes X No ____ A55) Easily removed? Yes ____ No X
Cornet stone (back side) + trash

From primary viewing area:

A56) Odors: Natural ____ Unnatural, occasional X Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 19 (B) Tillamook County Tax Lot: 700 Site No.: HAL2-54 (PEMC OBS)
Drainage Basin & Plot Location: S end of tax lot 700, S of corner
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 54
Land Use & Condition: mowed open field just S of corner. NW half appears wettest.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Fear	FAC-	50	H	✓					
Juef	FACW	20	H	✓					
phar	FACW	10	H						
Loco	FAC	<5	H						

Hydrophytic Vegetation? Indefinite 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: scattered rush clumps

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? No
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Need verification
Comments: no access

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration:
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 19 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? ___ Rationale:
Comments: no access

SUMMARY

Wetland? Probable Rationale: Need soil and hydrology parameters identified.
Comments: mosaic of wetland + upland

Date(s): 8/28/95 4pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No ____ unknown
W22)	% Cowardin classes present:	POW ____ PEM X PSS ____ PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. X 25-50 ft. ____ <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified ____ Extensive modifications ____
F31)	Stream channel % shaded:	____
H36)	Evidence of flooding?	Yes ____ No ____ Describe unknown
H37)	Outflow restricted?	Yes ____ No ____ "
H38)	Inflow restricted?	No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No X Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA feas. ADA view Obs. only ____ Barriers: ____
R49)	Trails/view areas?	Existing ____ Potential X No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited ____ Little/none X
A53)	Urban landscape: pkg lot edge	Open/natural ____ Groomed X None ____
A54)	Visual detractors?	Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural ____ Unnatural, occasional X exhaust Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____ hwy 101
A58)	View:	Whole/most of wetland X Small portion ____ Describe ____
A59)	No. of Cowardin classes visible:	2 or more ____ 1 X

LITTROOK OREGON

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

Index

T. 1S, R. 10 W, NE 1/4 of Sec. 24 Tillamook County Tax Lot: 304 Site No.: HAL 3-55 (PEM C / OBS)

Drainage Basin & Plot Location: W of Jerky + sausage factory, just S of Fred Meyer's construction

Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 55

Land Use & Condition: ungrazed, unmowed. Area to W of this is grazed – not a separate tax lot. There is a pond just S on tax lot 303 – probably a mitigation site.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Agrostis sp.	FACW-FAC(-or)	10	H						
Rave	FACW	75	H	X					
Juef	FACW	20	H	X					

Hydrophytic Vegetation? Yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC

Comments: Lot 600 to S is wet too.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Mapped as Nestucca & Nehalem, which may have (Brenner) hydric inclusions. Hydric Soils List:? Yes

Drainage Class: Criteria Depth: ___ in.

Hydric Soil? Probable Rationale: Need verification

Comments: no access

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: Broad Depression

Inundation and Depth: None in. Water Table & Depth: Unknown in.

Hydrology Alteration: No

Other Indicators: x None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.

Wetland Hydrology? Probable Rationale: Need verification

Comments: no access

SUMMARY

Wetland? Probable Rationale: Vegetation has positive indicators

Comments: Soil and hydrology need to be checked

Date(s): 8/28/95 Field Investigator(s): PS LB

4:45 pm

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ grazed
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No ____ Describe unknown
H37) Outflow restricted? Yes ____ No ____
H38) Inflow restricted? No ____ Yes, can be remedied ↓ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA view Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none X
A53) Urban landscape: Open/natural ____ Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural ____ Unnatural, occasional cows Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

8/29 8:30-6.50

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

Index

T. 1S, R. 10 W, SE 1/4 of Sec. 24 Tillamook County Tax Lot: 800 Site No.: HAL3-56 (PEMC, OBS)
Drainage Basin & Plot Location: N of Goodspeed Rd, W of house lots along 101
Normal Circumstances? yes Atypical Situation? no Problem Area? no Sample Point: 56
Land Use & Condition: grazed.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Hola	fac	<5	H		Trifolium repens	fac	35	H	✓
Agrostis sp.	fac	30	H	✓	Fesc	fac-	10	H	
Rumex sp.	FACW-FACW(OBL)	5	H						
Juef	facw	10	H						
Lyam	obl	15	H						

Hydrophytic Vegetation? Yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: grasses too short (grazed) to ID at a distance
Community is FAC- dominated, but LYAM suggests it may be wet.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation	Point - not evaluated
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: mapped as Brenner silt loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Need verification
Comments: no access

HYDROLOGY

Landform/Topography: alluvial terrace Wetland Drainage Pattern: no
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration:
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probable Rationale: Need verification
Comments:

SUMMARY

Wetland? Probable Rationale: Vegetation parameter has positive indicators
Comments: no access

Date(s): 8/28/95 5:30 pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ grazed
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No ____ Describe can't tell
H37) Outflow restricted? Yes ____ No unknown
H38) Inflow restricted? No ____ Yes, can be remedied ____ Yes, cannot be remedied unknown
P42) Hazards to public? No X Yes ____ Describe cows...
P44) Access exist/feasible: Non-ADA X ADA view Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none X
A53) Urban landscape: Open/natural ____ Groomed ____ None ____
A54) Visual detractors? Yes X No ____ A55) Easily removed? Yes X No ____ cows + cowpies

From primary viewing area:
A56) Odors: Natural? cows Unnatural, occasional X Unnatural, continuous X
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET** (PEMC / OBS)

T. 1S, R. 10 W, SE 1/4 of Sec. 24 (D) Tillamook County Tax Lot: 900 Site No.: HAL4-57

Drainage Basin & Plot Location: N of Hall Slough, S of Woodspeed Rd.

Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 57

Land Use & Condition: unmowed, ungraged. Blackberries on fill to W

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Lyam	obl	5	H		Loco	fac	15	H	
Rave	facw	80	H	X					
Pofa (Potentilla pacifica)	OBL	20	H	X					
Equisetum arvense	fac	15	H						
Phar	facw	10	H						

Hydrophytic Vegetation? Yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC

Comments: rudi on E edge (by fill material)
Fear + Dagl on edges

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nestucca silt loam; may have hydric (Blenner) inclusions Hydric Soils List:? No

Drainage Class: Criteria Depth: ___ in.

Hydric Soil? Probable Rationale: Need Verification

Comments: no access

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No

Inundation and Depth: None in. Water Table & Depth: Unknown in.

Hydrology Alteration: Industrial Development to East.

Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.

Wetland Hydrology? Probable Rationale: need verification

Comments: no access

SUMMARY

Wetland? Probable Rationale: Vegetation has positive indicators.

Comments: Soil and hydrology need verification

Date(s): 8/29/95 9 am Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No ____ unknown - appears not
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. X <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No ____ Describe unknown
H37) Outflow restricted? Yes ____ No ____
H38) Inflow restricted? No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA view Obs. only ____ Barriers: ____
R49) Trails/view areas? too open for trails Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none X
A53) Urban landscape: Open/natural ____ Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Hwy 101 Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

and 1S 9 28 CB.

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

SW 1/4 of sec 28 &

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 1900 Site No.: HOLL-29 PEMC

Drainage Basin & Plot Location: Cheddar Ck — 150 N of pond in open area (NE of big tree)

Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 29

Land Use & Condition: Grazed - horses/mules

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
LOCO	FAC	35	H	✓	RARE	FACW	1	H	
JUXA	FAC	35	H	✓	ANDL	FACW	1	H	
AGTE	FAC	20	H	✓					
JUEF	FACW	1	H						
CAOR	OBL	<1	H						

Hydrophytic Vegetation? Yes 3/3 = 100% of domin. species are OBL, FACW, FAC+ and/or FAC

Comments: FAC-dominated, but subdom's are fairly wet

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-9 in.	10YR 2/1	few faint to dist 7.5YR 3/4; SiCL; sl. moist
A	9-13 in.	10YR 2/1	few com dist 7.5YR 3/4; Clay; sl. moist
AB	13-17 in.	10YR 3/1	many com 7.5YR 3/4 5YR 3/3 clay moist
Bw1	17-25 in.	10YR 5/1	many from 5YR 4/6; clay; moist
Bw2 BC	25+ in.	10YR 5/1 & 2.5Y 3/1 & 4/1	variegated - many mod clay; v. moist 5YR 3/3 10YR 5/8

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon

Mg ✓ Concretions at 13" ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes

Drainage Class: Poorly Drained Criteria Depth: 12 in.

Hydric Soil? ___ Rationale:

Comments: Surface mottles could be due to horse compaction

HYDROLOGY

Landform/Topography: bottomland Wetland Drainage Pattern: SWAMP

Inundation and Depth: none in. Water Table & Depth: Apparent at 9 in.

Hydrology Alteration: storage pond 150 FT. SOUTH

Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves

___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.

Wetland Hydrology? Yes Rationale: Has sufficient positive indicators

Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators

Comments:

Date(s): 8-30 95 Field Investigator(s): LW KD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No ✓
W22)	% Cowardin classes present:	POW ____ PEM ✓ PSS ✓ PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. ____ 25-50 ft. ____ <25 ft. ____ N/A
F30)	Stream channel:	Natural ✓ Partly modified ____ Extensive modifications ____
F31)	Stream channel % shaded:	80%
H36)	Evidence of flooding?	Yes ____ No ✓ Describe very productive moist soil very distinct mucky with white spots
H37)	Outflow restricted?	Yes ____ No ✓
H38)	Inflow restricted?	No ✓ Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No ✓ Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA ____ ADA ____ Obs. only ____ Barriers: Fences
R49)	Trails/view areas?	Existing ✓ Potential ____ No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited ✓ Little/none ____
A53)	Urban landscape:	Open/natural ____ Groomed ____ None ____ N/A
A54)	Visual detractors?	Yes ____ No ✓ A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural ✓ (slight odor) Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ✓ Heavy+natural ____ Heavy intrusive ____
A58)	View:	Whole/most of wetland ____ Small portion ✓ Describe ____
A59)	No. of Cowardin classes visible:	2 or more ✓ 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY (Indef) **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 1900 Site No.: HOLL-30 PEMC
Drainage Basin & Plot Location: Cheldarch - NW corner of site - Van Loo's
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 30
Land Use & Condition: grazed - horses, water; gentle slope

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
RARE	FACW	50		✓					
LOCO	FAC	30		✓					
VIOLA	FAC	20		✓					

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-7 in.	10YR 3/2	— o — SiCl.
Bw1	7-17 in.	10YR 3/1	many dist 7.5YR 3/4; SiCLt, moist
Bw2	17-32 in.	10YR 3/1	" from 5YR 3/3; SiC, v. moist
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
mg ✓ Concretions ___ Sulfidic odor ___ Sandy w/high organic content
at 24"
Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Bottom land Wetland Drainage Pattern: depression
Inundation and Depth: None in. Water Table & Depth: Apparent at 7 in.
Hydrology Alteration: Storage pond upslope
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 7 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators
Comments:

Date(s): 8.30.95 Field Investigator(s): LW CL SFM

This is lowest point in site. => most of the property is upslope, very dry, and grazed to a nub.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Index) **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 1900 Site No.: HOL1-31 (PEMC)
Drainage Basin & Plot Location: Cheddar CR - Van Lew's Pond, NW corner, on berm. (PSSC instead)
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 31
Land Use & Condition: grazed

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
TIFF (on bank - lower edge & face)	FACW	40	H	✓	Upper edge:				
CAOB	OBL	20	H	✓	JUCO	FAC	40		✓
EXAR	FACW	5	H		RARE	FACW	50		✓
SASI	FACW	10	T		PUCA (Rumex conglom.)	FACW	1		
					RUDI	FACU	40	Sh	✓
	2/2 = 100%						2/3 = 67%		

Hydrophytic Vegetation? Yes : 1 = ____ % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	____ in.	fill material	
	____ in.		
	____ in.		
	____ in.		
	____ in.		

Other Indicators: ( ) None ____ Gleyed matrix ____ Histosol/Histic epipedon
____ Concretions ____ Sulfidic odor ____ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Soil listed as hydric, although this area is filled to create the berm containing the pond. Berm farther from pond (to N) is drier.
Comments:

HYDROLOGY

Landform/Topography: alluvial terrace Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: Height of pond in.
Hydrology Alteration: edge of storage pond
Other Indicators: X None ____ Sediment deposits ____ Water-stained leaves
____ Drift lines ____ Water marks ____ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ____ in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators
Comments:

Date(s): 5-20-95 Field Investigator(s): LW BT

On wland: SNLA, SASI, EXFI, SPDO, CAOB, JUEF, RUTR

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Index) **SITE DATA SHEET** Pictorial Update

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 700 Site No.: HOLL-32 (OBS)
Drainage Basin & Plot Location: Across from Fairground - other area between logged forest & #33 (Cheddar Cr.)
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 32
Land Use & Condition: Mowed field on W side (see 94 photo); SS on E side

VEGETATION

Species (Field side)	Indicator Status	% Cover	Layer	Domin.	Species (Shrub side)	Indicator Status	% Cover	Layer	Domin.
AGTE	FAC	65	H	✓	CYSC	NL	30	S	✓
RUDI	FACU	20	S	✓	RUDI	FACU	60	S	✓
HOLA	FAC	15	H	✓	PRVU	FACUT	1	S	
CYSC	NL	5	S		ALRU	FAC	1	T	
PTAQ	FACU	<1	H						
		2/3 = 67% FAC					0/2 = 0%		

Hydrophytic Vegetation? ___ /___ = ___ % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Other vegetation includes PLLA (FAC), SEJA (FACU), and Circium sp. (FACU) subdominants are mostly non-hydrophytic — FAC-dominated site at the coast not a reliable wetland indicator.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	___ in.	observation point - not evaluated	
	___ in.		
	___ in.		
	___ in.		
	___ in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Mapped at Quillayute silt loam, but may have hydric inclusions Hydric Soils List:? No
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Not likely Rationale: vegetation indicates drier site.
Comments:

HYDROLOGY

Landform/Topography: alluvial terrace Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: None in.
Hydrology Alteration: None
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Indefinite. Rationale: Hydrology needs to be checked in growing season.
Comments:

SUMMARY

Wetland? Unlikely Rationale: Vegetation and hydrology have marginal positive indicators; mapped soil non-hydric
Comments:

Date(s): 8-31-95 Field Investigator(s): LW KD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics.

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Index) **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 700 Site No.: HOLI-33 (OBS) (UPL)
Drainage Basin & Plot Location: Cedda Ck - S side of Brookfield Ave.
Normal Circumstances? N Atypical Situation? Y Problem Area? N Sample Point: 33
Land Use & Condition: Filled area across from fairgrounds - E of ar 32 side. (This was part of old airport runway).

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
AREL	UPL		H	✓	LOPE	FACU		H	
AGRE	FAC-		H	✓	RUUR	FACU		H	
PHAR	FACW		H		on fill piles:				
IXGL	FACU		H	✓	FEPI	FACU		S	
FEAR	FAC-		H		RUSA	FACU		S	

Hydrophytic Vegetation? NO 0/3 = 0 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point -	Fill / Hebo
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Fill / Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Rationale:
Comments: This site was part of old airport runway.

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: no
Inundation and Depth: None in. Water Table & Depth: not apparent in.
Hydrology Alteration: Filled area
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: — in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? NO Rationale: All parameters lack sufficient indicators
Comments:

Date(s): 8-31-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Index) **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 700 Site No.: HOL1-34 (OBS)
Drainage Basin & Plot Location: Ditch along fairgrounds from Brookfield Ave toward NW (UPL)
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 3d
Land Use & Condition: Not much wildlife character – deep ditch

VEGETATION – Dense Reed canary

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
RUDI	FACU		S	✓	ALRU	FAC		T	
Rhamnus pursh.	NI		S		SARA	FACU		S	
					PyFU	NL		S	
PIST	FAC		T						
CYSC	NL		S						

Hydrophytic Vegetation? NO 0/1 = 0 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: all common species FAC, FACU or upland

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Observation point – not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Ginger silt loam Hydric Soils List:? No
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? unlikely Rationale:
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: Ditch
Inundation and Depth: None in. Water Table & Depth: no in.
Hydrology Alteration: Ditch
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators except bottom of ditch.
Comments:

SUMMARY

Wetland? NO Rationale: All parameters lack positive indicators
Comments: Edge of old airport runway.

Date(s): 8-21-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 28(CB) Tillamook County Tax Lot: 1890 Site No.: 1.12 4041-35(CB) (PFOC)
Drainage Basin & Plot Location: forested large area - Cheddarck - 50 Brookfield Ave.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 35 E end
Land Use & Condition: Forested - swale

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
West:									
LYAM	OBL	15	H						
CAOB	OBL	25	H	V					
SALIX	FACW-OBL	40	S	V					
ALRU	FAC	35	T	V					
SARA	FACW	30	S	V					

Hydrophytic Vegetation? Yes 3/4 = 75% of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Probable Rationale: Mapped soil listed as hydric
Comments:

HYDROLOGY

Landform/Topography: Forested Bottomland Wetland Drainage Pattern: swale
Inundation and Depth: None in. Water Table & Depth: No in.
Hydrology Alteration: No
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probable Rationale: Has sufficient positive indicators.
Comments: Water table should be checked during growing season

SUMMARY

Wetland? PW Rationale: All parameters have positive indicators
Comments:

Date(s): 8-31-95 Field Investigator(s): LW RD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 28(CB) Tillamook County Tax Lot: 1890 Site No.: 2of2 HOLI-36 (OBS) (UPL)
Drainage Basin & Plot Location: Cheddar Ck - S of Brookfield Ave. - East
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 36
Land Use & Condition: Forested-large area. Richer ground

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
ALRU	FAC	40	T	✓	RARE	FACW	1	H	
SARA	FACU	20	T	✓	CADE	FACU	1	H	
Salix sp.	FAC(W)-OBL	10	SH		DAGL	FACU	1	H	
EQUI	FACU	20	SH	✓					
POMU	FACU	15		✓					

Hydrophytic Vegetation? No 1/4 = 25 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Observation point - not evaluated.	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Possible Rationale: Mapped soil listed as hydric
Comments: Possibly effectively drained by creek

HYDROLOGY

Landform/Topography: Bench above swale Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: — in.
Hydrology Alteration: None
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Unknown Rationale: Needs to be checked during growing season.
Comments:

SUMMARY

Wetland? No Rationale: Vegetation lacks positive indicators
Comments: mosaic area

Date(s): 8-31-95 Field Investigator(s): LW BJ

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 28(CB) Tillamook County Tax Lot: 2500 Site No.: HOLI-37 (OBS; PEMC)
Drainage Basin & Plot Location: Cedar Cr. - lot at NW corner of Brookfield and McCormack
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 37
Land Use & Condition: West side of lot & road ditch

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
JUEF	FACW	60	H	✓	Upland is higher ground pasture - grazed	(to E)			

Hydrophytic Vegetation? Yes 1 / 1 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Mapped soil is listed as hydric
Comments:

HYDROLOGY

Landform/Topography: Low alluvial Terrace w/depression Wetland Drainage Pattern: depression
Inundation and Depth: None in. Water Table & Depth: Not apparent in.
Hydrology Alteration: No
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probably Rationale: Hydrology needs to be checked in growing season
Comments: Assumed wet because veg. indicators are so strong.

SUMMARY

Wetland? PW Rationale: All parameters have positive indicators
Comments: but Soil and Hydrology conditions should be checked during growing season.

Date(s): 8-31-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 28(CB) Tillamook County Tax Lot: 2000 & 2002 Site No.: HOLI-38(OBS) PSSC
Drainage Basin & Plot Location: Lot west of 37
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 38
Land Use & Condition: house being built in middle-ish woods

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Salix lasiandra	FACW		T	✓					
SASI	FACW		S	✓					
ALRU w odors	FAC		T	✓					
SPDO under	FACW		S	✓					
SATO	FACW-		S	✓					

Hydrophytic Vegetation? Yes 5/5 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? yes Rationale: Mapped soil is listed as hydric
Comments:

HYDROLOGY

Landform/Topography: Low Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: No in.
Hydrology Alteration: No
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? probable Rationale:
Comments:

SUMMARY

Wetland? Probable Rationale: Vegetation parameter has positive indicators
Comments: Soil and hydrology conditions should be checked during growing season.

Date(s): 8-31-95 Field Investigator(s): LDS BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Index) **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 800 & 901 Site No.: HOL2-12 (PEMC OBS)
Drainage Basin & Plot Location: Cheddar ck - Mapel Loop Rd ck crossing - E side
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 12
Land Use & Condition: Pasture on S; abandoned field on N side

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
CAOB	OBL	not recorded	H	✓	HOLA	FAC	not recorded	H	
SPDO	FACW		S	✓	PNAR	FACW		H	
SAHO	FACW-		S	✓	ROSA	FACW-	FACU (est.)	S	
RARE	FACW		H	✓	callitriche in ck			H	
JUEF	FACW	✓	H		LOST	FACW	✓	S	

Hydrophytic Vegetation? Yes 4/4 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: This is veg. along the stream channel and bank.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluted	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Mapped soil listed as hydric
Comments:

HYDROLOGY

Landform/Topography: creek Wetland Drainage Pattern: stream course
Inundation and Depth: surface in. Water Table & Depth: 0 in.
Hydrology Alteration: Development on both sides of creek
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines X Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Standing water in creek
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient positive indicators - soil assumed hydric, given hydrology and veg.
Comments:

Date(s): 8-29-94 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Index) **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 1000 Site No.: HOL2-20 (PEMC)
Drainage Basin & Plot Location: S side Cheddar Ck; Rau ranch (W side of McCormack Rd.)
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 20
Land Use & Condition: pasture - cattle

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
AGTE	FAC	25	H	✓	TRRE	FAC	<1	H	
JUTE	FACW-	25	H	✓					
HOLA	FAC	15	H	✓					
LOCO	FAC	15	H	✓					
RAPE	FACW	<1	H						

Hydrophytic Vegetation? Yes 4/4 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-8 in.	10YR 3/1	— o — SiCL moist, concretions @ 8"
Bw1	8-11 in.	10YR 4/1	many, dist. 7.5YR 3/1, SiCL, moist
Bw2	11-16 in.	2.5Y 4/1 & 5/1	" from 5YR 4/4 & 5/2, SiC, moist
Bw3	16-22+ in.	10YR 5/1	7.5YR 5/8 c/f SiC moist (mem. pan)
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
at 8" ✓ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Footslope Wetland Drainage Pattern: Depression
Inundation and Depth: None in. Water Table & Depth: Apparent at 8 in.
Hydrology Alteration: Diked Cheddar creek to North.
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient positive indicators,
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BT

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY (Index) **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 1000 Site No.: HOL2-21 (UPL)
Drainage Basin & Plot Location: Rau-Cheddar Ck - 100' S of #20
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 21
Land Use & Condition: pasture - cows

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
AGTE	FAC	45	H	✓					
DAGL	FACU	30	H	✓					
FEAR	FAC-	10	H						
HOLA	FAC	15	H						
PLLA	FAC	<1	H						

Hydrophytic Vegetation? NO 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: SUBDOMINANTS ARE MARGINALLY HYDROPHYTIC

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-11 in.	10YR 2/1	— ; SiCL; dry
A	11-15 in.	"	few dist. 7.5YR 3/4; SiCL dry
BW1	15-17 in.	2.5Y 3/2	many dist 7.5YR 5/8; SiC; moist
BW2	17+ in.	2.5Y 5/2	" prom 7.5YR 5/8, 5/6; SiC; moist
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
at 15" Mg Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Ginger silt loam Hydric Soils List:? No
Drainage Class: Somewhat poorly Criteria Depth: 0 in.
Hydric Soil? marginal Rationale: few indicators
Comments:

HYDROLOGY

Landform/Topography: Low alluvial terrace Wetland Drainage Pattern: no
Inundation and Depth: None in. Water Table & Depth: No in.
Hydrology Alteration: No
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? NO Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? NO Rationale: Veg & soils lack sufficient positive indicators.
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 (Ender) Tillamook County Tax Lot: 1000 Site No.: HOL2-22 (PEMc)
Drainage Basin & Plot Location: Rau; Cheddar Ck
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 22
Land Use & Condition: W of 21, seepage area

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
JUEF	FACW	40	H	✓	AGTE	FAC	30	H	
JUEN	FACW	20	H	✓	Sisyrinchium	OBL-FACW (est)	2	H	
LOCO	FAC	20	H	✓	Eleocharis ovata	OBL	<1	H	
HOLA	FAC	15	H		ANOD	FACW	<1	H	
KYAM	OBL	<1	H						

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-16 in.	2.5Y 2/0	4" duff layer; no mottles; SiCL; Sat.
A	16-20 in.	2.5Y 2/0	5G 4/2 many prom; Sat. SiC.
Cr	22 in.		gravel layer - weathered sandstone
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments: Seepage area, saturated to surface

HYDROLOGY

Landform/Topography: Low footslope Wetland Drainage Pattern: Depression
Inundation and Depth: None in. Water Table & Depth: 6 in.
Hydrology Alteration: None
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 5 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments: discharge of subsurface flow

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient positive indicators
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BD

5' downslope (on flat) from edge of wet area, it is dry SiCL to 12" to gravelly layer (10YR 2/2) - mottles at 10" - many distinct 5YR 3/3 7.5YR 5/6, too
AGTE, HOLA, LOCO, Cynosurus echinatus, FEAR, PLLA, RARE

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No ✓

W22) % Cowardin classes present: POW ____ PEM ✓ PSS ____ PFO ____ Other reed canary grass

W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. ____ <25 ft. N/A

F30) Stream channel: Natural ✓ Partly modified ____ Extensive modifications ____

F31) Stream channel % shaded: ____

H36) Evidence of flooding? Yes ✓ No ____ Describe Spring water (black soil + moss)

H37) Outflow restricted? Yes ____ No ✓

H38) Inflow restricted? No ✓ Yes, can be remedied ____ Yes, cannot be remedied ____

P42) Hazards to public? No ✓ Yes ____ Describe ____

P44) Access exist/feasible: Non-ADA ____ ADA ____ Obs. only ____ Barriers: fence

R49) Trails/view areas? (cattle trails) Existing ✓ Potential ____ No existing or potential ____

A52) Rural area visual contrast: Significant ____ Limited ✓ Little/none ____

A53) Urban landscape: Open/natural ____ Groomed ✓ None ____ N/A

A54) Visual detractors? Yes ____ No ✓ A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56) Odors: Natural ✓ Unnatural, occasional ____ Unnatural, continuous ____

A57) Noise: Natural ____ Light+natural ✓ Heavy+natural ____ Heavy intrusive ____

A58) View: Whole/most of wetland ✓ Small portion ____ Describe peculiar wetland, very wet and very small

A59) No. of Cowardin classes visible: 2 or more ✓ 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 (Order) Tillamook County Tax Lot: 1000 Site No.: HOL2-23 (UPL)
Drainage Basin & Plot Location: Rau, Cheddar (trib); - on stream bank at bend in ck.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 23
Land Use & Condition: grazed

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
AGST	FAC	50	H	✓					
CYCR	UPL	10	H						
FEAR	FAC-	20	H	✓					
RULA	FAC	10	H						

Hydrophytic Vegetation? No 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: on creek bank, subdominants are mostly marginal hydrophytes
In creek: PHAR, JUEF; SPDC, RULA, Callitriche in water

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-3 in.	10YR 3/2	Common, Distinct, 10YR 4/6, clay, Dry
AB	3-11 in.	10YR 3/1	Many, Prominent, 5YR 3/4, clay, Dry
BW	11-22 in.	10YR 5/1	Many, Prominent, 5YR 3/3 + 7.5YR 5/8, clay, Dry
	in.		
	in.		

Other Indicators: ✓ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silt loam Hydric Soils List:? Yes
Drainage Class: Somewhat poorly Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient positive indicators, effectively drained
Comments: Stream cut profile, mottles due to water in creek channel

HYDROLOGY

Landform/Topography: footslope Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: Not apparent in.
Hydrology Alteration: Ditched Cheddar creek
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 4 in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? ND Rationale: Drained by ditch — ~~ds~~ 4½ ft down steep bank to stream.
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BL

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes _____ No ✓
W22) % Cowardin classes present: POW _____ PEM ✓ PSS _____ PFO _____ Other _____
W26) Urban veg. buffer (unmowed): >50 ft. _____ 25-50 ft. _____ <25 ft. _____ N/A
F30) Stream channel: Natural ✓ Partly modified _____ Extensive modifications _____
F31) Stream channel % shaded: _____
H36) Evidence of flooding? Yes _____ No ✓ Describe [illegible]
H37) Outflow restricted? Yes _____ No ✓
H38) Inflow restricted? No ✓ Yes, can be remedied _____ Yes, cannot be remedied _____
P42) Hazards to public? No ✓ Yes _____ Describe _____
P44) Access exist/feasible: Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49) Trails/view areas? [illegible] Existing _____ Potential _____ No existing or potential _____
A52) Rural area visual contrast: Significant _____ Limited ✓ Little/none _____
A53) Urban landscape: Open/natural _____ Groomed _____ None _____ N/A
A54) Visual detractors? Yes _____ No ✓ A55) Easily removed? Yes _____ No _____

From primary viewing area:
A56) Odors: Natural ✓ Unnatural, occasional _____ Unnatural, continuous _____
A57) Noise: Natural _____ Light+natural ✓ Heavy+natural _____ Heavy intrusive _____
A58) View: Whole/most of wetland ✓ Small portion _____ Describe _____
A59) No. of Cowardin classes visible: 2 or more ✓ 1 _____

OREGON WETLAND INVENTORY Odger Raw (Index) SITE DATA SHEET

T. 1S, R. 9 W, SE 1/4 of Sec. 29 Tillamook County Tax Lot: 1000 Site No.: HOL2-27 (PEM c

Drainage Basin & Plot Location: Cheddar Ck - Raw pop; NW of "Index" crossing

Normal Circumstances? Y Atypical Situation? N Problem Area? No Sample Point: 27

Land Use & Condition: grazed pasture

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
AGTE	FAC	25	H	✓	LOCO	FAC	5	H	
RNOD	FACW	35	H	✓	PRVU	FACW+	<1	H	
Ranunculus sp.	(UPL)	10	H		HOLA	FAC	1	H	
CAOB (Short awn)	OBL	25	H	✓					
TUTE	FACW-	<1	H						

Hydrophytic Vegetation? Yes 2/3 = 67 % of domin. species are OBL, FACW, FAC+ and/or FAC

Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-10 in.	2.5Y 4/1	many dist. from 7.5YR 4/6; clay; dry
AB	10-12 in.	2.5Y 4/1 & 10YR 5/3	" from 7.5YR 5/8; " 6; slightly moist
Bw	12-20 in.	10YR 5/1	many " 7.5YR 5/8 & 4/6; clay; moist
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
✓ Concretions (10") ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List?: Yes

Drainage Class: Poorly Drained Criteria Depth: 12 in.

Hydric Soil? Yes Rationale: Has sufficient positive indicators

Comments:

HYDROLOGY

Landform/Topography: bottomland (slight depression) Wetland Drainage Pattern: depressional

Inundation and Depth: None in. Water Table & Depth: Apparent at 10 in.

Hydrology Alteration: None

Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.

Wetland Hydrology? Yes Rationale: Has sufficient positive indicators

Comments: surface ponding is source

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators

Comments:

Date(s): 8.30.95 Field Investigator(s): AD BL

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9W, SE 1/4 of Sec. 29 (Index) Tillamook County Tax Lot: 1000 Site No.: HOL2-28 (PEMC)
Drainage Basin & Plot Location: Cheddar Cr – across bridge on N side of cr – Rau site – wooded swale.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 28
Land Use & Condition: cropped

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
HOLA	FAC	20	H	✓	LOCO	FAC	5	H	
AGTE	FAC	30	H	✓	RUCO	FACW		H	
KARE	FACW	15	H						
THEL	FACW	20	H	✓					
ALGE	OBL	15	H						

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-8 in.	10 YR 3/1-2	few dist 7.5YR 3/4; SiCL; sl. moist
AB1	8-14 in.	10 YR 3/1	many dist 7.5YR 3/4 & 5YR 3/3; SCL+; mois
AB2	14-23 in.	10 YR 3/1	" f&m from 5YR 3/3 & 7.5YR 5/6; SiC; v. mois
2BW1	23-35 in.	10 YR 2/1	few dist 5YR 3/3; fine SaCL; v. mois
2BW2	35-40 in.	10 YR 3/1	" faint-dist 5 YR 3/3; sandy loam; mois
Cg	40+	5 BG 5/1	" common 5YR 3/2 & 7.5YR 5/6; SiC; sat.

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
✓ Concretions at 14" ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments: 23-40"–Probably different depositional event layed sand layer.

HYDROLOGY

Landform/Topography: Swale on bottomland Wetland Drainage Pattern: swale/old channel?
Inundation and Depth: None in. Water Table & Depth: Apparent at 8 in.
Hydrology Alteration: Ditching of Cheddar creek
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators
Comments:

Date(s): 8.20.95 Field Investigator(s): LW EL

This is a wash bone swale from Cheddar to the west on the N (but looks lower at N end...)

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes _____ No _____
W22) % Cowardin classes present: POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26) Urban veg. buffer (unmowed): >50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30) Stream channel: Natural _____ Partly modified _____ Extensive modifications _____
F31) Stream channel % shaded: _____
H36) Evidence of flooding? Yes _____ No _____ Describe _____
H37) Outflow restricted? Yes _____ No _____
H38) Inflow restricted? No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42) Hazards to public? No _____ Yes _____ Describe _____
P44) Access exist/feasible: Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49) Trails/view areas? Existing _____ Potential _____ No existing or potential _____
A52) Rural area visual contrast: Significant _____ Limited _____ Little/none _____
A53) Urban landscape: Open/natural _____ Groomed _____ None _____
A54) Visual detractors? Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:
A56) Odors: Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57) Noise: Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58) View: Whole/most of wetland _____ Small portion _____ Describe _____
A59) No. of Cowardin classes visible: 2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29(cc) Tillamook County Tax Lot: 2400 Site No.: H023-8 (PSSC)
Drainage Basin & Plot Location: Cheddar Creek - N side of 12th (main) Loop, S of end of Williams Ave.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 8
Land Use & Condition: disturbed, undistinguished

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Salix sp.	FACW-OBL	80	S	✓					
RULA	FACW+	15	S						
CAMB	OBL	20	H	✓					
veg. cover	—	60	H						

Hydrophytic Vegetation? yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Stream channel runs through LYAM, COST, RTFL on edges

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-5 in.	10YR 3/2	None; SiL; slight, wmst
A	5-8 in.	10YR 3/2	few dist. 10YR 5/1 & 4/2 wmst SiL+
Bg1	8-12 in.	10YR 5/1	many dist 7.5YR 3/4 & 4/6, mst SiCL
Bg2	12-18 in.	"	" " " mst SiC
Bg3	> 18 in.	"	many prom. 5YR 4/6 & 7.5YR 4/6 wmst/vwmst SiC

Other Indicators: ___ None ✓ Gleyed matrix ___ Histosol/Histic epipedon
✓ Concretions at C" ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: poorly-drained Criteria Depth: 12 in.
Hydric Soil? yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: bottomland Wetland Drainage Pattern: stream routine
Inundation and Depth: not apparent in. Water Table & Depth: apparent, 9 in.
Hydrology Alteration: filling of adjacent properties may be filling flood plain.
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines X Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 5 in.
Wetland Hydrology? yes Rationale: has sufficient positive indicators
Comments:

SUMMARY

Wetland? yes Rationale: all parameters have positive indicators
Comments:

Date(s): 8-28-95 Field Investigator(s): JW, BD

See #9

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29(cc) Tillamook County Tax Lot: 2400 Site No.: H023-9 (PEMC)
Drainage Basin & Plot Location: Cheddar Ck
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 9.
Land Use & Condition: undist; adjacent to church/Daycare Ctr.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
CAOB	OBL	50	H	✓	nearby:				
HOLA	FAC	40	H	✓	RUCR	FACU+		S	
PHCA	FACU	5	H		LOCO	FAC		H	
JUEF	FACW	5	H		Potentilla pacifica	OBL		H	

Hydrophytic Vegetation? Yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-7 in.	10YR 2/2	—•—; SiCL; moist; CL
A	7-11 in.	10YR 3/2	few distinct 10YR 3/6 SiCL; moist; CL
B1	11-13 in.	10YR 2/1	many distinct 5YR 3/3 & 4/4; moist; SiCL
B2	13-20+ in.	10YR 4/1	11 from 10YR 5/6 SiC; moist
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
✓ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: poorly-drained Criteria Depth: 12 in.
Hydric Soil? yes Rationale: has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: bottomland Wetland Drainage Pattern: depression
Inundation and Depth: none apparent in. Water Table & Depth: Apparent, 11 in.
Hydrology Alteration:
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? yes Rationale: has sufficient positive indicators
Comments:

SUMMARY

Wetland? yes Rationale: all parameters have positive indicators
Comments: Boundary is ecotone at toe of opening mowed west of the church.

Date(s): 8-28-95 Field Investigator(s): MH KD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No ✓
W22) % Cowardin classes present: POW ____ PEM ✓ PSS ✓ PFO ✓ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. ____ <25 ft. X
F30) Stream channel: Natural X Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: 90
H36) Evidence of flooding? Yes ____ No ✓ Describe ____
H37) Outflow restricted? ? Yes ____ No ____
H38) Inflow restricted? ? No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA ____ ADA ____ Obs. only X Barriers: [illegible]
R49) Trails/view areas? Existing X Potential ____ No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none ____
A53) Urban landscape: Open/natural ____ Groomed X None ____
A54) Visual detractors? Yes X No ____ A55) Easily removed? Yes X No ____

From primary viewing area:
A56) Odors: Natural ____ Unnatural, occasional X Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland ____ Small portion ✓ Describe [illegible]
A59) No. of Cowardin classes visible: 2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29(cc) Tillamook County Tax Lot: 2402 & 2500 Site No.: HOL 3-10 (PEMC & PSSC & OBS)
Drainage Basin & Plot Location: Cheddar Ck; Rd. N of housing developmt.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 10
Land Use & Condition: Some surface dist. during constr. but now overgrown

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
PEM					PSS				
NOLA	FAC		H	✓	SASI	FACW		SH-T	✓
CAOB	OBL		H	✓	SALA	FACW+		SH-T	✓
JUEF	FACW		H	✓	IRRA (Physocarpus)	FACW-		T	
SPDO	FACW		T		COST	FACW		T	
PHAR	FACW		H						
SARA	FACW		T						

Hydrophytic Vegetation? YES (PEM) 3/3 / (PSS) 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Accurate cover estimates were too difficult to obtain at this obs. site.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: ___ in.
Hydric Soil? Yes Rationale: Mapped soil on Hydric soil list.
Comments:

HYDROLOGY

Landform/Topography: Edge of bottomland Wetland Drainage Pattern: Depression
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration: Upgradient development
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Appears saturated in growing season, but water table should be checked.
Comments:

SUMMARY

Wetland? Probable Rationale: All parameters have sufficient positive indicators; soils + water should be checked during growing season.
Comments:

Date(s): 8-29-95 Field Investigator(s): LD RL

See sheet # 9

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29(CD) Tillamook County Tax Lot: 500 & 600 Site No.: HOL3-11 (PEMC OBS)
Drainage Basin & Plot Location: Cheddar CR - Mohler Loop Rd - ck crossing - W side
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 11
Land Use & Condition: Houses on both sides - mowed yards to edge of bank. Top.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
PHAR	FACW		H	✓	JUEF	FACW		H	
RARE	FACW		H	✓	POPE	FACW		H	
HYPRADST	FACW		S						
" SASI	FACW		S						
Callitriche sp.			H						

Hydrophytic Vegetation? Yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Ck. is cleared to SS area to the west.
Accurate cover est. was difficult at this obs. site.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Heba silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Mapped soil listed as Hydric
Comments:

HYDROLOGY

Landform/Topography: creek Wetland Drainage Pattern: stream course
Inundation and Depth: surface in. Water Table & Depth: 0 in.
Hydrology Alteration: Development on both sides of creek
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines X Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: — in.
Wetland Hydrology? Yes Rationale: standing water in creek
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient positive indicators Hydric soil is assumed because of strong veg. & hydrol. indicators.
Comments:

Date(s): 8-29-95 Field Investigator(s): LW PL

Note - in forested area to SW, a cat is clearing out the N. end of the Salix SS comm even as we stand here.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29(CD) Tillamook County Tax Lot: 2400 Site No.: HOL3-16(UPL)
Drainage Basin & Plot Location: Cheddar Ck; Marsh Loop Rd - on upper bench
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 16
Land Use & Condition: ~~House on SE corner; rest of S end open~~; 1st of 4 samples on prop.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
HOLA	fac	65	H	✓	PLLA	fac	<1	H	
AGAL	FACW	10	H		RUDI	FACW	<1	AL	
AGTE	fac	15	H						
LOPR	FACW	5	H						
EARE	FACW	10	H						

Hydrophytic Vegetation? Yes 1/1 = 100 % of domin. species are OBL, FACW, FAC+ and/or (FAC)
Comments: Marginally hydrophytic plant comm; 3 = FAC; 3 = FACW; 1 = FACW

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-11 in.	10YR 2/2	—; SiL; slightly moist
A	11-19 in.	10YR 2/2	few diff 5YR 3/3; SiL; " "
Bt	19+ in.	7.5YR 2/0 & 10YR 3/4	few diff, 5YR 3/3; SiCL; slightly moist
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
at 22" ✓ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Quillayute silt loam Hydric Soils List:? No
Drainage Class: Somewhat poorly Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks suffic. pos. indic., effectively drained?
Comments:

HYDROLOGY

Landform/Topography: BACKSLOPE Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: Apparent, 19 in.
Hydrology Alteration: No
Other Indicators: ✓ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? No Rationale: Lacks suffic. pos. indicators
Comments:

SUMMARY

Wetland? NO Rationale: Soil and hydrology parameters lack positive indicators, relict soil characteristics?
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BD SPM

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No ✓
W22)	% Cowardin classes present:	POW ____ PEM ✓ PSS ____ PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. ____ 25-50 ft. ____ <25 ft. ✓
F30)	Stream channel:	Natural ✓ Partly modified ____ Extensive modifications ____
F31)	Stream channel % shaded:	____
H36)	Evidence of flooding?	Yes ____ No ✓ Describe ____
H37)	Outflow restricted?	Yes ____ No ✓
H38)	Inflow restricted?	No ✓ Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No ✓ Yes ✓ Describe long Pasture.
P44)	Access exist/feasible:	Non-ADA ____ ADA ____ Obs. only ____ Barriers: Fences
R49)	Trails/view areas?	Existing ____ Potential ✓ No existing or potential ✓ trail at the edge of the
A52)	Rural area visual contrast:	Significant ____ Limited ✓ Little/none ____
A53)	Urban landscape:	Open/natural ____ Groomed ✓ None ____
A54)	Visual detractors?	Yes ____ No ✓ A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural ✓ Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ✓ Heavy+natural ____ Heavy intrusive ____
A58)	View:	Whole/most of wetland ✓ Small portion ____ Describe ____
A59)	No. of Cowardin classes visible:	2 or more ✓ 1 ____

...HOOK OREGON WETLAND ASSESSMENT

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29 (CD) Tillamook County Tax Lot: 2400 Site No.: HOL3-17 (UPL)
Drainage Basin & Plot Location: Cheddar Ck; flat bottomland - N of #16
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 17
Land Use & Condition: Undist. grassland 2 of 4 on prop.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
HOLA	fac	35	H	✓					
ANGL	facw	20	H	✓					
AGTE	fac	35	H	✓					
ANOD	facw	10	H						
PLLA	fac	<1	H						

Hydrophytic Vegetation? Yes 2/3 = 67 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Marginally hydrophytic veg

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-16 in.	10YR 2/1	few dist 5YR 3/3; SiL moist SiL
BW1	16-24 in.	7.5YR 2/0	" " " ; mois SiCL
BW2	24+ in.	10YR 3/1	" " " ; SiCL moist
	in.	3/3	
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Quillayute silt loam Hydric Soils List:? No
Drainage Class: Somewhat poorly drained Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Footslope Wetland Drainage Pattern: No
Inundation and Depth: No in. Water Table & Depth: Not apparent in.
Hydrology Alteration: No
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: Soil and hydrology lack sufficient indicators
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BD SPM

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29 (CD) Tillamook County Tax Lot: 2400 Site No.: H023-18 (PFOC)
Drainage Basin & Plot Location: 45' N of shrub line - Cheddar Ck (along E prop line - only access) to PSS
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 18
Land Use & Condition: Edge of forested bottomland 3 of 4 on prop.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
SPDO	FACW	30	S	✓	RULA	FACU		S	
SALIX	OBL-FAC(est)	30	S	✓	MADI	FACU-		H	
CAST	FACW	20	S	✓	POMU	FACU		H	
CAOR	OBL	30	H	✓	Rosa	FACW to FAC(est.)		S	
RULA	FAC+	15	S	✓					

Hydrophytic Vegetation? Yes 5/5 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Dense forest canopy

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-5 in.	10YR 2/1	—0— ; SiL ; Slightly moist
BW1	5-10 in.	10YR 3/1 d	
	in.	10YR 4/1	common, faint, dist 10YR 4/6 & 7.5YR 4/4 ; SiCL ; moist
BW2	10-14 in.	10YR 4/1	many, prom. 10YR 4/6 ; SiCL/SiC ; very moist
B	14-19+ in.	2.5Y 4/1	" " 10YR 5/6 ; SiC ; very moist
		2.5Y 5/1 & 4/1	" " 10YR 6/8 ; SiC ; v. moist / sat.

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List?: Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: Depression
Inundation and Depth: None in. Water Table & Depth: Apparent at 5 in.
Hydrology Alteration: No
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators
Comments:

Date(s): 8-29-95 Field Investigator(s): BD, LW

There is a old berm at shrub line / fence line (covered w/ RUDI). This is now covered w/a mountain of RUDI & RULA. Possibly built to prevent stream waters from flooding the field to the S. The same areas downstream are wet → sample # 10 & 9 are typical.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 29 (CD) Tillamook County Tax Lot: 2400 Site No.: HOL3-19 (PSSC)
Drainage Basin & Plot Location: Cheddar Ck - 25' S of Ck; 175' N of # 18; on E prop line
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 19
Land Use & Condition: Undist. adjacent to Creek. 4 of 4 on prop.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
SALA	FACW+	20	S	✓	NTFI	FAC	<1	H	
RUSP	FAC+	15	S	✓					
SASI	FACW	30	S	✓					
TOME (Tolmeia)	FAC	10	H	✓					
LYAM	OBL	<1	H						

Hydrophytic Vegetation? Yes 4/4 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-10 in.	10YR 2/2	few dist 10YR 4/1 & 7.5YR 3/4; SiCL; moist
AB	10-15 in.	10YR 3/2	com dist 7.5YR 3/4; SiCL; moist.
BW	15-19 in.	10YR 4/1	many from 10YR 4/6 & 5YR 3/4; SiC; v. moist
Cg	19+ in.	2.5Y 5/1	" " 7.5YR 4/4 & 5/6; SiC; v. moist
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: edge of creek
Inundation and Depth: None in. Water Table & Depth: Apparent at 10 in.
Hydrology Alteration: No
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments: The creek may be draining this wetland.

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient positive indicators.
Comments:

Date(s): 8-29-95 Field Investigator(s): LW BD

One hummock spot w/ big spruce: higher ground w/ POMU, MADI, CAOB, RUSP, RULA & one VAPA

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

next sample pt: 39U

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 30(DD) Tillamook County Tax Lot: 2900 & 2905 Site No.: #0L4-39 (PEM/OBS)
Drainage Basin & Plot Location: Cheddar Ck - NE Corner of 12th & Evergreen
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 39
Land Use & Condition: grazed &/or mowed

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
(pasture grasses		not recorded			JUEF	FACW	not recorded	H	
in wetlands)		recorded			RUDI	FACW	recorded	S	
in Creek drainage:					LOCO	FAC		H	
SEDO	FACW		S	✓	Rosa	FACW to FAC		S	
Salix	FACW	✓	S	✓					

Hydrophytic Vegetation? Yes within creek 2/2 = 100% % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam (vicinity of stream) Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Yes Rationale: Mapped soil is listed as hydric
Comments:

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: Creek drainage
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration: No
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Creek has positive indicators
Comments:

SUMMARY

Wetland? Yes for creekbed; Rationale: All parameters within creek have positive indicators.
Comments: Probable for areas outside creek bed — blue flocculent — in process of being mapped for wet def?

Date(s): 8-31-95 Field Investigator(s): LW VBD

NOTE: (10-96) SRI/Shapiro delineation has been filed at DSL for this site. Delineation boundaries have been drawn on LWI maps.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes X No ____
W22)	% Cowardin classes present:	POW ____ PEM 100 PSS ____ PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. ____ 25-50 ft. ____ <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified X Extensive modifications ____
F31)	Stream channel % shaded:	1%
H36)	Evidence of flooding?	Yes ____ No X Describe not at this time
H37)	Outflow restricted?	Yes ____ No X
H38)	Inflow restricted?	No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No ____ Yes X Describe busy roads; steep banks
P44)	Access exist/feasible:	Non-ADA ____ ADA ____ Obs. only X Barriers: topog, traffic
R49)	Trails/view areas?	Existing ____ Potential ____ No existing or potential X
A52)	Rural area visual contrast:	Significant ____ Limited ____ Little/none X
A53)	Urban landscape:	Open/natural ____ Groomed ____ None ____
A54)	Visual detractors?	Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural ____ Unnatural, occasional X Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ____ Heavy+natural ____ Heavy intrusive X
A58)	View:	Whole/most of wetland X Small portion ____ Describe ____
A59)	No. of Cowardin classes visible:	2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 30(CD) Tillamook County Tax Lot: 4300 Site No.: HOLS-7 (PSSC OBS)
Drainage Basin & Plot Location: Cheddar Ck; on Miller between 11th & 12th; E side
Normal Circumstances? ____ Atypical Situation? ____ Problem Area? ____ Sample Point: 7
Land Use & Condition: steep sided banks — development up to edges; timbered & parking lot, etc.

VEGETATION

Species (Creek bottom:)	Indicator Status	% Cover	Layer	Domin.	Species (upper banks:)	Indicator Status	% Cover	Layer	Domin.
SALA	FACW+		S	✓	ALRU	FAC		T	
SANO	FACW-		S	✓	RUDI	FACU		S	
SASI	FACW		S		Convolvulus sepium	NL		H	
PHAR	FACW		H	✓	Polygonum (a. intr.)	FACU		H	
SPDO	FACW		S						

Hydrophytic Vegetation? Yes, Creek Bottom 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: No, upper bank = 1/4 = 25% dominance.
Polygonum is either cuspidatum or sachalinense

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	____ in.	Observation point - not evaluated.	
	____ in.		
	____ in.		
	____ in.		
	____ in.		

Other Indicators: ____ None ____ Gleyed matrix ____ Histosol/Histic epipedon ____ Concretions ____ Sulfidic odor ____ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained. Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Mapped soil is on Hydric soil list
Comments: Soils on Upper bank are effectively drained.

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: Creek
Inundation and Depth: Flow in Creek in. Water Table & Depth: 0 in.
Hydrology Alteration: Development on all sides of creek.
Other Indicators: ____ None ____ Sediment deposits ____ Water-stained leaves ____ Drift lines ____ Water marks ____ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ____ in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: Wetland includes creek bottom, but not upper banks (effectively drained)
Comments:

Date(s): 8-28-95 Field Investigator(s): LW, BD.

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No X
W22) % Cowardin classes present: POW ____ PEM ____ PSS 100 PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ✓
F31) Stream channel % shaded: 80
H36) Evidence of flooding? Yes ____ No X Describe ____
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No ____ Yes X Describe steep banks, deep channel
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: Topog
R49) Trails/view areas? Existing ____ Potential ____ No existing or potential X
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none ____
A53) Urban landscape: Open/natural ____ Groomed ____ None X
A54) Visual detractors? Yes ____ No ____ A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural ____ Unnatural, occasional X Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural ____ Heavy intrusive X
A58) View: Whole/most of wetland ____ Small portion X Describe dense shrub cover
A59) No. of Cowardin classes visible: 2 or more ____ 1 1

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SW 1/4 of Sec. 30(CD) Tillamook County Tax Lot: 4000 Site No.: HOL6-6 (PSSC, 065)
Drainage Basin & Plot Location: Cheddar Ck: on Miller between 11th & 12th; W side
Normal Circumstances? Yes Atypical Situation? N Problem Area? N Sample Point: 6
Land Use & Condition: Steep sided banks — development up to upper edge
Apartments, Daycare; farm

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Creek bottom:					Upper banks				
SALA	FACW+		S	✓					
SAHO	FACW-		S	✓	ALRU	FAC		T	✓
SASI	FACW		S		RUDI	FACU		S	✓
PHAR	FACW		H	✓	Convolvulus sepium	NL		H	
					Polygonum (Irrigatus)	FACU		H	

Hydrophytic Vegetation? Yes Creek bottom 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: No, ½ = 50% dominance on Upper banks.
Polygonum sp. is either cuspidatum or sachalinense

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation	point - not evaluated.
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: ___ in.
Hydric Soil? Yes Rationale: Mapped soil is on Hydric soil list
Comments: Upper bank (effectively drained)

HYDROLOGY

Landform/Topography: bottom land Wetland Drainage Pattern: stream course
Inundation and Depth: Flowing creek in. Water Table & Depth: 0 in.
Hydrology Alteration: Development on all sides of creek.
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines X Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: Wetland includes creek bottom, but not
Comments: upper bank (effectively drained)

Date(s): 8.28.95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No X
W22)	% Cowardin classes present:	POW ____ PEM ____ PSS 100 PFO ____ Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. Wood 25-50 ft. ✓ Emt <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified ✓ Extensive modifications ____
F31)	Stream channel % shaded:	30
H36)	Evidence of flooding?	Yes ____ No X Describe ____
H37)	Outflow restricted?	Yes ____ No X
H38)	Inflow restricted?	No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No X Yes ____ Describe Steep banks, deep channel
P44)	Access exist/feasible:	Non-ADA X ADA ____ Obs. only ____ Barriers: Topog.
R49)	Trails/view areas?	Existing ____ Potential ____ No existing or potential X
A52)	Rural area visual contrast:	Significant ____ Limited ____ Little/none ____
A53)	Urban landscape:	Open/natural ____ Groomed ____ None X
A54)	Visual detractors?	Yes ____ No ____ A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural ____ Unnatural, occasional X Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural ____ Heavy+natural ____ Heavy intrusive X
A58)	View:	Whole/most of wetland ____ Small portion X Describe Some shrub cover ✓
A59)	No. of Cowardin classes visible:	2 or more ____ 1 ✓

TILLAMOOK, OREGON WETLAND INVENTORY (& Index) **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25(AC) Tillamook County Tax Lot: 400 + Unit Site No.: HOQ-1-1 (OBS) PFOC
Drainage Basin & Plot Location: Hoquarton Slough; N of Front St near Cedar - W of main bump access
Normal Circumstances? unfilled areas Atypical Situation? filled areas Problem Area? N Sample Point: 1
Land Use & Condition: Partially filled in patches - part of dump area?

VEGETATION

Species (Unfilled Areas Mosaic of A)	Indicator Status	% Cover	Layer	Domin.	Species (Filled Areas and B)	Indicator Status	% Cover	Layer	Domin.
ALRU	fac		T	✓	CYSC	NL		S	
PHAR	facw		H	✓	RUDI	facw		S	
Salix	facw-fac+		S	✓	grasses				

Hydrophytic Vegetation? Y 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: ↑ for unfilled areas
Filled areas lacks sufficient dominance
Note: Cover estimates often not meaningful at obs. points; in these cases, they are not given.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	offsite -- not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Urban fill and Coquille and Brenner silt loams Hydric Soils List:? Yes
Drainage Class: unfilled areas poorly drained, swp for filled areas Criteria Depth: ___ in.
Hydric Soil? probable Rationale: Mapped soils are on Hydric soil list.
Comments:

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: Depression
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration: Filled area to north, west and east
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probably unfilled areas Rationale: aerial photos and observation point appear to have sufficient hydrology, but should be checked at the beginning of growing season.
Comments:

SUMMARY

Wetland? PW; unfilled areas Rationale: Vegetation, mapped soil, and hydrology all have sufficient positive indicators
Comments:

Date(s): 8-28-95 Field Investigator(s): LW ED

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes _____ No _____
W22) % Cowardin classes present: POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26) Urban veg. buffer (unmowed): >50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30) Stream channel: Natural _____ Partly modified _____ Extensive modifications _____
F31) Stream channel % shaded: _____
H36) Evidence of flooding? Yes _____ No _____ Describe _____
H37) Outflow restricted? Yes _____ No _____
H38) Inflow restricted? No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42) Hazards to public? No _____ Yes _____ Describe _____
P44) Access exist/feasible: Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49) Trails/view areas? Existing _____ Potential _____ No existing or potential _____
A52) Rural area visual contrast: Significant _____ Limited _____ Little/none _____
A53) Urban landscape: Open/natural _____ Groomed _____ None _____
A54) Visual detractors? Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:
A56) Odors: Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57) Noise: Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58) View: Whole/most of wetland _____ Small portion _____ Describe _____
A59) No. of Cowardin classes visible: 2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

HOQI-2 (PEMC) (OBS) & N

T. 1S, R. 10 W, NE 1/4 of Sec. 25(AC) Tillamook County Tax Lot: 4500 Site No.: _____

Drainage Basin & Plot Location: Hoquarton Slough; N of Cr, Slopes, 1st & Birch

Normal Circumstances? Yes Atypical Situation? No Problem Area? NO Sample Point: 2

Land Use & Condition: abandoned log pond - standing water in open area

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
TYLA	OBL		H	✓					
SCVA	OBL		H	✓					
PHAR	FACW		H	✓					
Salix sp.	OBL-FAC		S	✓					
AGRI (creeping)	FAC		T						

Hydrophytic Vegetation? Yes 4/4 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC

Comments: ~~a~~ down ~~of office~~ to north (~~m~~ edge of slough?)

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	OFFSITE -	NOT EVALUATED
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: COQUILLE AND BRENNER SILT LOAMS Hydric Soils List:? Yes

Drainage Class: VERY POOR Criteria Depth: _____ in.

Hydric Soil? Yes Rationale: MAPPED SOILS ARE ON HYDRIC SOIL LIST.

Comments:

HYDROLOGY

Landform/Topography: BOTTOMLAND Wetland Drainage Pattern: DEPRESSION (POND)

Inundation and Depth: AT SURFACE in. Water Table & Depth: 0 in.

Hydrology Alteration: ABANDONED LOG POND

Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: _____ in.

Wetland Hydrology? Yes Rationale: POND

Comments:

SUMMARY

Wetland? Yes Rationale: VEGETATION, SOIL MAPPED AND HYDROLOGY

Comments: HAVE SUFFICIENT POSITIVE INDICATORS.

Date(s): 8-28-95 Field Investigator(s): LW RD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25(AC) Tillamook County Tax Lot: 4500 & N Site No.: HDQ1-3 (OBS) (PEM?)
Drainage Basin & Plot Location: Hoquarton Slough: between Bush & Hospital - N of City Shops filled area
Normal Circumstances? Y Atypical Situation? No Problem Area? No Sample Point: 3
Land Use & Condition: Undisturbed currently

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Salix spp.	FACW-FAC		S	✓					
CAOB	OBL		H	✓					
PHAR	FACW		H	✓					
TYLA	OBL		H	✓					

Hydrophytic Vegetation? ____ 4/4 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: conifers (spruce) at N end (alders slough edge?)
No cover estimates — no accuracy at obs. points like this.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	____ in.	offsite -	not evaluated
	____ in.		
	____ in.		
	____ in.		
	____ in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille and Brenner silt loams — Hydric Soils List:? Yes
Drainage Class: Very poorly drained — Criteria Depth: ____ in.
Hydric Soil? Yes Rationale: mapped soils are on Hydric soil list
Comments:

HYDROLOGY

Landform/Topography: Bottomland — Wetland Drainage Pattern: Depression
Inundation and Depth: Surface in. — Water Table & Depth: 0 in.
Hydrology Alteration: No
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season — Depth of Major Portion of Root Zone: ____ in.
Wetland Hydrology? Yes Rationale: Hoquarton slough
Comments: standing water visible from observation point

SUMMARY

Wetland? Yes Rationale: Vegetation, mapped soil, and hydrology have sufficient positive indicators.
Comments:

Date(s): 8-28-95 Field Investigator(s): LW RD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No X
W22) % Cowardin classes present: POW 10 PEM 5 PSS 20 PFO 65 Other ____
W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. ____ <25 ft. X
F30) Stream channel: Natural ____ Partly modified X Extensive modifications ____
F31) Stream channel % shaded: 1 %
H36) Evidence of flooding? Yes X No ____ Describe ____
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No ____ Yes X Describe steep banks, roadside, deep water channel
P44) Access exist/feasible: Non-ADA ____ ADA ____ Obs. only b Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant X Limited ____ Little/none ____
A53) Urban landscape: Open/natural ____ Groomed ____ None X
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe PEM, POW, PSS, PFO
A59) No. of Cowardin classes visible: 2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25(AC) Tillamook County Tax Lot: 4500 Site No.: HOQ1-4 (UPL)
Drainage Basin & Plot Location: Hoquarton Slough; filled area N of county shops (S of SP3)
Normal Circumstances? NO Atypical Situation? Y Problem Area? No Sample Point: 4
Land Use & Condition: actively being filled w/road waste - sand, concrete, asphalt, etc.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
mostly unvegetated									
RUDI on fillbanks	FACW	SH		✓					

Hydrophytic Vegetation? No 0/1 = 0 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	Fill material	- unable to described or classify
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Not classified Hydric Soils List:? —
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? — Rationale: —
Comments:

HYDROLOGY

Landform/Topography: Fill material/Historic backslope Wetland Drainage Pattern: No
Inundation and Depth: — in. Water Table & Depth: — in.
Hydrology Alteration: Filled area
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? NO Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: Filled area
Comments:

Date(s): 8-28-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25(AA) Tillamook County Tax Lot: 100 Site No.: HOQ1-63 (PSSC)
Drainage Basin & Plot Location: N of Hoquarton Slough, ~150' W of hwy 101, 30' S of pkg lot by Fern Rest.
Normal Circumstances? N Atypical Situation? N Problem Area? N Sample Point: 63
Land Use & Condition: undisturbed wooded wetland 160' W of 101

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Desa	Obl	30	H	✓	Sara	FACW	5	S	
Lyam	Obl	15	H		Rusp	FAC+	<5	S	
Caob	Obl	30	H	✓	shrub (boxelder?)		<5	S	
Salix lasiandra	FACW	40	S	✓					
Atfi	FAC	10	H						

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: @ edge, where tree canopy removed, Carex stipata, Scirpus microcarpus, Rare, Veronica americana, Rumex conglom., Epilobium

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0 - 4 in.	10YR 3/2	too faint to distinguish, sil, VM
AB	4 - 14 in.	2.5Y 3/2	c, d 7.5YR 3/4 mottles VM sil
Bw	14- in.	10Y 3/0	m, p 7.5YR 3/3, few gley mottles, sil, sat.
	in.		
	in.		

Other Indicators: ___ None ✓ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille silt loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: Depression
Inundation and Depth: None in. Water Table & Depth: Apparent at 4 in.
Hydrology Alteration: No
Other Indicators: x None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 4 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient indicators
Comments:

Date(s): 8/29/95 12:30 pm Field Investigator(s): PS CB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No X
W22) % Cowardin classes present: POW ____ PEM X PSS X PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. ____ 25-50 ft. ____ <25 ft. X adjacent to pkg. lot
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No X Describe ____
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA X Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing X Potential ____ No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: Open/natural ____ Groomed X None ____
A54) Visual detractors? Yes X pkg lot No ____ A55) Easily removed? Yes ____ No X

From primary viewing area:
A56) Odors: Natural ____ Unnatural, occasional X Unnatural, continuous ____ exhaust
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____ Hwy 101
A58) View: Whole/most of wetland ____ Small portion X Describe thick veg.
A59) No. of Cowardin classes visible: 2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SE 1/4 of Sec. 24(D) Tillamook County Tax Lot: 2300 Site No.: HOQI-64 (PEMC)
Drainage Basin & Plot Location: 30' N of shopping plaza containing Fern Restaurant
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 64
Land Use & Condition: grazed pasture, just north of Newport Plaza (shopping)

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Juef	FACW	20	H	✓					
Phar	FACW	5	H						
Agte	FAC	35	H	✓					
Rare	FACW	50	H	✓					

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Caob patches nearby

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-10 in.	2.5Y 3/2	C,d 7.5 yr 3/3 SM SiL
Bw1	10-16 in.	10YR 4/3	too faint to distinguish SiL, moist
Bw2	16-22 in.	10YR 3/3	" " " " , moist, SiL
Bw3	>22 in.	" 3/3	common, faint 10YR 3/4 SiL, moist
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille silt loam Hydric Soils List:? Yes
Drainage Class: SWP Criteria Depth: 0 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators in criteria depth
Comments:

HYDROLOGY

Landform/Topography: Low alluvial terrace Wetland Drainage Pattern: edge of bottomland
Inundation and Depth: unknown - possible 3 in. Water Table & Depth: 0 in.
Hydrology Alteration: downgradient blockage by shopping plaza/development
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? Yes Rationale: Appears to have suffic. pos. indic.
Comments:

SUMMARY

Wetland? Yes Rationale: All 3 parameters satisfied
Comments:

Date(s): 8/29/95 2:25pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes X No ____ Describe algal mats on fence
H37) Outflow restricted? Yes ? No ____ possibly - parking lot across drainage flow direction
H38) Inflow restricted? No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe just cows
P44) Access exist/feasible: Non-ADA X ADA view Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited ____ Little/none X
A53) Urban landscape: Open/natural ____ Groomed ____ None X to the south
A54) Visual detractors? Yes X No ____ A55) Easily removed? Yes ____ No ____
bldgs, parking lot

From primary viewing area:
A56) Odors: Natural ____ Unnatural, occasional cows Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____ hwy 101
A58) View: Whole/most of wetland ____ Small portion X Describe most of wl. is W of pkg lot
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SE 1/4 of Sec. 24(D) Tillamook County Tax Lot: 2300 Site No.: 40Q1-65 (UPL)
Drainage Basin & Plot Location: Pasture 60' N of Newport Plaza
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 65
Land Use & Condition: Grazed pasture

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Lolium sp.	FacU	15	H	X	Festuca arund.	Fac-	10	H	
Agrostis tenuis	Fac	50	H	X	Dagl	Facu	5	H	
Cynosurus cristatum	N/L	<5	H		Anod	Facu	10	H	
Juef	Facw	12	H		Trifolium repens	Fac	<5	H	
Hola	Fac	10	H		Loco	Fac	<5	H	

Hydrophytic Vegetation? No 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: subdominants mostly fac + facu

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-10 in.	10YR 3/2	none, SL. Mo. SiL
Bw	10-+24 in.	10YR 3/4	none, slightly moist, s.i.L
	in.		
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? No
Drainage Class: Moderately Well Criteria Depth: 0 in.
Hydric Soil? NO Rationale: Lacks sufficient positive indicators
Comments: at >18" + few soft Fe masses 7.5YR 4/6 (not mottled)

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: NOT APPARENT in.
Hydrology Alteration: Development east and south
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: All parameters lack sufficient indicators
Comments:

Date(s): 8/29/95 2:40 pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25 (Index) Tillamook County Tax Lot: 100 (Lot 5) Site No.: HOQ1-66 (UPL)
Drainage Basin & Plot Location: W of Newport Plaza
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 66
Land Use & Condition: undeveloped woodland

VEGETATION

Species (Holmeia menz.)	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Tome	FAC	50	H	X	Lyam	obl	5	H	
Pomu	Facu	30	H	X					
Rusp	FACt	15	S						
Sara	FACU	20	S	X					
Alru	FAC	25	T	X					

Hydrophytic Vegetation? No 2 / 4 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Marginal wetland plants – all FAC & FACU except for 5% LYAM (OBL); FAC-dom. communities not good indicators of wetlands on the OR coast.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-4 in.	10YR 3/2	none VM SiL
AB	4-10 in.	2.5Y 3/2	few faint 10YR 3/3, common distinct 10Y 2.5/0 mottles VM SiL
BW1	10-21 in.	10YR 3/2	few distinct 10Y 2.5/0 mottles VM SiL
BW2	21- in.	5Y 2.5/1	few distinct 10YR 3/3 " Sat'd SiL
	in.		

VM SiL mottle

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Brenner silt loam Hydric Soils List:? Yes
Drainage Class: Somewhat Poorly Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient indicators
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: ___ in. Water Table & Depth: Apparent 10 in.
Hydrology Alteration: None
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 4 in.
Wetland Hydrology? Probable Rationale: Need Verification
Comments:

SUMMARY

Wetland? No Rationale: Soil & vegetation lack sufficient indicators;
Comments: representative of upland portion of mosaic in this area

Date(s): 8/29/95 330 pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25 (Index) Tillamook County Tax Lot: 100 (Lot 5) Site No.: H001-67 (PFOC)
Drainage Basin & Plot Location: W of Newport Plaza
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 67 (not #68)
Land Use & Condition: low spot 20' E of SP 66 — undeveloped woodland

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Lyam	Obl	50	H	X					
Athfi	FAC	10	H						
Sara	FACW	30	S	X					
Alru	FAC	10	S						

Hydrophytic Vegetation? Yes 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: High cover of LYAM strong indicator of wetland character.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A1	0-8 in.	10YR 3/2	mottles too faint to distinguish Sat'd SiL
A2	8-13 in.	10YR 3/2	mottles 10YR 3/3 (few, faint) Sat'd SiL
Bw1	13-16 in.	2.5Y 3/2	c,d 10YR 3/3
Bw2	16->20 in.	2.5Y 3/1	c,p 10YR 4/6 + 5GY 2.5/0 mottles, Sat'd SiL
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Brenner silt loam Hydric Soils List:? Y
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? yes Rationale: saturated to surface
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: Depression
Inundation and Depth: 0-2 in. Water Table & Depth: Yes, at surface in.
Hydrology Alteration: No
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 4 in.
Wetland Hydrology? Yes Rationale: Has sufficient indicators in criteria depth
Comments:

SUMMARY

Wetland? yes Rationale: All parameters have sufficient indicators
Comments: Representative of wetland portion of mosaic of this area

Date(s): 8/29/95 4 pm Field Investigator(s): PS ZB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No X
W22)	% Cowardin classes present:	POW ____ PEM X PSS X PFO X Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. X 25-50 ft. ____ <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified ____ Extensive modifications ____
F31)	Stream channel % shaded:	____
H36)	Evidence of flooding?	Yes X No ____ Describe adj'd to surface flows
H37)	Outflow restricted?	Yes ____ No X
H38)	Inflow restricted?	No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No X Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49)	Trails/view areas?	Existing ____ Potential X No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited X Little/none ____
A53)	Urban landscape:	Open/natural ____ Groomed ____ None ____
A54)	Visual detractors?	Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural X Light+natural ____ Heavy+natural ____ Heavy intrusive ____
A58)	View:	Whole/most of wetland ____ Small portion X Describe ____
A59)	No. of Cowardin classes visible:	2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25(AC) Tillamook County Tax Lot: 400 North of Site No.: HOQ1-78 (OBS) (PSSCx)
Drainage Basin & Plot Location: Hoquarten Slough, just N of Front St.
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 78
Land Use & Condition: filled lot w/scattered depression

VEGETATION

Species (drier areas)	Indicator Status	% Cover	Layer	Domin.
rula 5%				
Phar	FACW	30	H	✓
Scrub bloom	NL	10	S	
Rudi	FACW	5	S	
Plla	FAC	5	H	
Agto	FAC	20	H	✓
AND)	FACW	10	H	

Species (wetter areas)	Indicator Status	% Cover	Layer	Domin.
Salix (hookeri?)	30	FACW-	S	✓
Alru	30	FAC	S	✓
Phar	50+	FACW	H	✓
Juef	5	FACW	H	✓
Juen	2	FACW	H	

Hydrophytic Vegetation? 2/2=100% 4/4=100% ___/___ = ___ % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Both areas have hydrophytic plant dominance

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	___ in.	observation point. not evaluated	
	___ in.		
	___ in.		
	___ in.		
	___ in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille silt loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Probable Rationale: Needs to be verified
Comments: Offsite from street — appears to be fill material.

HYDROLOGY

Landform/Topography: low alluvial terrace Wetland Drainage Pattern: depressions
Inundation and Depth: no in. Water Table & Depth: unknown in.
Hydrology Alteration: none
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 19 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Probable Rationale: Needs to be verified
Comments:

SUMMARY

Wetland? Probable Rationale: Needs to be verified.
Comments: scattered depressions in filled area veg. done offsite

Date(s): 8/30/95 4:30 pm Field Investigator(s): PS CB

* site will need detailed WL delin. to determine jurisdictional status of artificially-created depressions in fill material

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ lots of fill placed here
W22) % Cowardin classes present: POW ____ PEM X PSS X PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No X Describe ____
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No ____ Yes X Describe fill material piles, rubble
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant X Limited ____ Little/none ____
A53) Urban landscape: Open/natural X Groomed ____ None ____
A54) Visual detractors? Yes X No ____ A55) Easily removed? Yes ____ No X
junky-looking area

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SE¼ of NW 1/4 of Sec. 25 (Index) Tillamook County Tax Lot: 401 & 402 Site No.: HOR2-5 (PEMC, OBS)
Drainage Basin & Plot Location: Hoquarton Slough: W of Hospital parking lot
Normal Circumstances? N Atypical Situation? Filled Area Problem Area? N Sample Point: 5
Land Use & Condition:

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
JUEF	FACW	H		✓	ALRU & RUDI near west end of				
PHAR	FACW	H		✓	in line with wedge of parking lot S of site).				
Salix spp.	FACW	S							
COST	FACW	S							
AGTE	FAC	H		✓					

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: AGTE dominates also S. edge upper parking lot -

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	not determined - observation pt	
	in.	adjacent area is filled	
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Unable to verify Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? ___ Rationale:
Comments:

HYDROLOGY

Landform/Topography: Low alluvial Terrace Wetland Drainage Pattern: depression
Inundation and Depth: ___ in. Water Table & Depth: ___ in.
Hydrology Alteration: Adjacent areas are filled
Other Indicators: ___ None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Unknown Rationale: Unable to determine
Comments:

SUMMARY

Wetland? Probable Rationale: Soil + hydrology need verification
Comments:

Date(s): 8-28-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, NE 1/4 of Sec. 25 (AC) Tillamook County Tax Lot: 4601 Site No.: HOQ2-76 (PEMCf)
Drainage Basin & Plot Location: Hoquarten Slough + Trask River
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 76
Land Use & Condition: Grazed pasture, ~ 300' N of hospital pkg lot

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Phar	FACW	20	H	✓	Trre	FAC	<5	H	
Agrostis sp.	FACW-FAC	15	H	✓					
Algae (Hypec. genic)	OBL	40	H	✓					
Rumex sp	FACW-FAC	<5	H						
Potentilla pacifica	OBL	<5	H						

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: In field: Gnpac (FAC+)

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-11 in.	10YR 3/2	C,d 7.5 YR 3/4 SM SiL
Bw1	11-20 in.	2.5 Y 3/2	C,p 5 YR 3/4 SM SiL
Bw2	20+ in.	5 Y 3/2	" " " M SiL
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille silt loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Mapped soil listed as hydric
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: Depression
Inundation and Depth: Estimate 0-2 in. Water Table & Depth: surface in.
Hydrology Alteration: none
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments: Algae reg's standing H_2O

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient indicators
Comments:

Date(s): 8/30/95 Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ grazed + mowed
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes X No ____ Describe Gnpa in some areas
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: Open/natural X Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural X Light+natural ____ Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10W, NE 1/4 of Sec. 25(AC) Tillamook County Tax Lot: 4601 Site No.: HOQZ-77 (UPL)
Drainage Basin & Plot Location: 430' N of hospital pkg lot. Hoq Slough + Trask River
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: ZZ
Land Use & Condition: grazed pasture

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Phar	FACW	40	H	✓					
Alpr	FACW	55	H	✓					
Fear	FAC-	15							

Hydrophytic Vegetation? Yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-14 in.	10YR 3/3	none SM SiL
AB	14-18 in.	10YR 3/3	f,d 7.5YR 4/6 SM SiL
BW	18->20 in.	10YR 3/2	f,d " " " "
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? N
Drainage Class: Somewhat Poorly Drained Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Low Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: no in. Water Table & Depth: Not apparent in.
Hydrology Alteration: Hospital to South
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? NO Rationale: Soil an hydrobsy parameters lack sufficient indicators -
Comments:

Date(s): 8/30/95 Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 30(BB) Tillamook County Tax Lot: 100 Site No.: HOQ3-79 (UPL)
Drainage Basin & Plot Location: Hoquarton Slough, ~200' S of DeWayne Kreeland's house
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 79
Land Use & Condition: grazed pasture

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Dagl	FACW	75	H	✓					
Fera	FAC-	20	H	✓					

Hydrophytic Vegetation? No 0/2 = 0 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Depressions in pasture dominated by Algae, Rare

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
A	0-25 in.	10YR 3/3	none SM SiL
Bw	>25 in.	10YR 3/4	none M SiL
	in.		
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? N
Drainage Class: Mod. Well Drained Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient indicators
Comments:

HYDROLOGY

Landform/Topography: alluvial terrace Wetland Drainage Pattern: some depressions
Inundation and Depth: None in. Water Table & Depth: not apparent in.
Hydrology Alteration: Residential to North
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 8 in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: All parameters lack sufficient indicators
Comments:

Date(s): 6/20/15 5 pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 30(BB) Tillamook County Tax Lot: 100 Site No.: HOQ3-80 (PEMC)
Drainage Basin & Plot Location: Hoquarton Slough, ~400' SSW of DeWayne Cleveland's house
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 80
Land Use & Condition: grazed pasture.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Juef	FACW	15	H	X					
Alge	obl	70	H	X					
Popa	obl	<5	H						
Lyam	OBL	5	H						

Hydrophytic Vegetation? Yes 2/2 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-4 in.	10YR 3/2	fine sa. to distinguish, SL moist, SiL
AB	4-13 in.	10Y 3-2.5/1	m, p. 5YR 3/4 mo. SiL
BW	13->22 in.	2.5Y 3/2	m, p 7.5YR 3/4 mo + 5GY 3/1 mottles along roots VM SiL
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Coquille silt loam Hydric Soils List:? Yes
Drainage Class: Poorly drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient indicators in criteria depth.
Comments:

HYDROLOGY

Landform/Topography: low alluvial Terrace Wetland Drainage Pattern: Depression
Inundation and Depth: no in. Water Table & Depth: apparent at 4 in.
Hydrology Alteration: none
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 19 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Has sufficient indicators in criteria depth
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators
Comments: pasture is bounded on S edge by deep (5-6') possibly tidal ditch. Forest beyond appears quite wet, but inaccessible.

Date(s): 8/30/95 5:45pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ grazed
W22) % Cowardin classes present: POW ____ PEM X PSS X PFO X Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications X tidal channel
F31) Stream channel % shaded: 75%
H36) Evidence of flooding? Yes ____ No X Describe ____
H37) Outflow restricted? Yes ____ No ____ unknown - tidal
H38) Inflow restricted? No ____ Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant X Limited ____ Little/none ____
A53) Urban landscape: Open/natural X Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural X Light+natural ____ Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland X Small portion ____ Describe ____
A59) No. of Cowardin classes visible: 2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, NW 1/4 of Sec. 30 (BB) Tillamook County Tax Lot: 100 Site No.: HQQ3-83(PSSC)
Drainage Basin & Plot Location: Hoquarton Slough, ~100' S of Safeway lot
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 83
Land Use & Condition: vacant wooded lot edge.

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Caob	obl	20	H	✓	Salix (hooker's)	FACW-	15	S	
Lyam	obl	5	H		Pisi	FAC	10	T	
Sara	FACW	40	S	✓					
Atfi	FAC	25	H						
Alru	FAC	20	T	✓					

Hydrophytic Vegetation? Yes 2/3 = 67 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
AP	0-7 in.	2.5Y 3/2	c,d 7.5YR 3/4 + 4/6 mo VM SiL
AB	7-13 in.	5Y 3/2	c,p 7.5YR 4/6 Sat'd SiL
BW	13->20 in.	10Y 3/0	none Sat'd SiL-SiC+
	in.		
	in.		

Other Indicators: ___ None X Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Brenner silt loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Bottomland Wetland Drainage Pattern: depression
Inundation and Depth: none in. Water Table & Depth: surface in.
Hydrology Alteration: Development to the North
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 7 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient indicators
Comments:

Date(s): 8/31/95 12:30pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No X
W22) % Cowardin classes present: POW ____ PEM ____ PSS ____ PFO X Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes X No ____ Describe Lynn
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: bushwhacking
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: Open/natural ____ Groomed X None ____ pkg lot nearby
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural ____ Heavy+natural X Heavy intrusive ____
A58) View: Whole/most of wetland ____ Small portion X Describe heavy veg. cover
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

84 = LAST SAMPLE PT.

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, ____ 1/4 of Sec. 30 Tillamook County Tax Lot: 401 Site No.: 4004-84 (PFOC) (OBS)
Drainage Basin & Plot Location: Hoquarton Slough; wooded area just S of RR trax
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 84
Land Use & Condition: ____

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Caob	obl	20	H	X	Alru	FAC	30	T	X
Lyam	obl	10	H	X	Sara	FACW	10	S	
Desa	obl	5	H		Cost (Cornus stolon.)	FACW	<5	S	
Phar	FACW	20	H	X	Typha	obl	<5	H	
Sasi	FACW	30	S	X	Scirpus microcarpus	obl	<5	H	

Hydrophytic Vegetation? Yes 5 | 5 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: offsite estimate — no access — A. macrophyllum
upland veg. Ruci, Pisi, maple, some Alru, ornamentals, ivy
Pomu, bracken

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
____	____ in.	____	____
____	____ in.	____	____
____	____ in.	____	____
____	____ in.	____	____
____	____ in.	____	____

Other Indicators: ____ None ____ Gleyed matrix ____ Histosol/Histic epipedon
____ Concretions ____ Sulfidic odor ____ Sandy w/high organic content

Series/Phase: Coquille & Brenner silt loams Hydric Soils List:? Yes
Drainage Class: ____ Criteria Depth: ____ in.
Hydric Soil? Probable Rationale: Need verification
Comments: no access

HYDROLOGY

Landform/Topography: low alluvial Terrace Wetland Drainage Pattern: Depression
Inundation and Depth: ____ in. Water Table & Depth: ____ in.
Hydrology Alteration: ____
Other Indicators: ____ None ____ Sediment deposits ____ Water-stained leaves
____ Drift lines ____ Water marks ____ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ____ in.
Wetland Hydrology? Probable Rationale: Need verification
Comments: no access

SUMMARY

Wetland? PW Rationale: no access
Comments: ____

Date(s): 8/31/95 2:30 pm Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes ____ No X
W22)	% Cowardin classes present:	POW ____ PEM ____ PSS X PFO X Other ____
W26)	Urban veg. buffer (unmowed):	>50 ft. X 25-50 ft. ____ <25 ft. ____
F30)	Stream channel:	Natural ____ Partly modified ____ Extensive modifications ____
F31)	Stream channel % shaded:	____
H36)	Evidence of flooding?	Yes ____ No X Describe ____
H37)	Outflow restricted?	Yes ____ No X
H38)	Inflow restricted?	No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42)	Hazards to public?	No X Yes ____ Describe ____
P44)	Access exist/feasible:	Non-ADA ____ ADA ____ Obs. only ? Barriers: railroad
R49)	Trails/view areas?	Existing ____ Potential ? No existing or potential ____
A52)	Rural area visual contrast:	Significant ____ Limited X Little/none ____
A53)	Urban landscape:	Open/natural X Groomed ____ None ____
A54)	Visual detractors?	Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:

A56)	Odors:	Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57)	Noise:	Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58)	View:	Whole/most of wetland X Small portion ____ Describe ____
A59)	No. of Cowardin classes visible:	2 or more ____ 1 X

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 (Sunday) Tillamook County Tax Lot: 1000 Site No.: JAC1-24 (PEMCf)
Drainage Basin & Plot Location: Tributary Jack Cr (Spring) - about 5 feet into forested area
Normal Circumstances? Y Atypical Situation? N Problem Area? N' Sample Point: 24
Land Use & Condition: grazed pasture

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
RARE	FACW	30	H	✓	TRRE	FAC.	5	H	
JUEF	FACW	30	H	✓	JUAR	OBL	<1	H	
AGST	FAC	20	H	✓					
LOCO	FAC	1	H						
Poa sp.	FACU-FACW(-OH)	1	H						

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-10 in.	10YR 2/1	few dist 7.5 YR 3/4 ; many f/v mnf SiCL
AB	10-18 in.	10YR 3.2/1	com dist 5YR 3/3 very mnf+ SiCL
Bt1	18-28 in.	10YR 3/1 & 4/1	many prom 10YR 4/6 ; v moist SiCL+
Bt	28- in.	2.5Y 4/2 +	" " 10YR 5/8 " " SiC
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
at 18" ✓ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators.
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: Apparent at 10 in.
Hydrology Alteration: No
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 6 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments: This is runoff from grazing the hillside area to south

SUMMARY

Wetland? Yes Rationale: All parameters have positive indicators
Comments:

Date(s): 8-30-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 (Undef) Tillamook County Tax Lot: 1100 Site No.: JAC1-25 (PSSC 085)
Drainage Basin & Plot Location: M. Jack Creek – Spring & seep – S of Pasture line
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 85
Land Use & Condition: Pastured by cows – pocked w/ hoof marks

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
SAPI/SAHA	FACW	75	S	✓					
RARE	FACW	25	H	✓					
LYAM	OBL	20	H	✓					

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL OR-5 only — no access

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point – not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Hebo silty clay loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Yes Rationale: Soil listed as hydric
Comments: Soil is black, wet with deep hoof marks.

HYDROLOGY

Landform/Topography: crest of broad ridge (alluvial terrace) Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: Surface in.
Hydrology Alteration: No
Other Indicators: x None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Has positive indicators – sat. soil;
Comments: Water from springs starting in this area and to E.

SUMMARY

Wetland? yes Rationale: All parameters have positive indicators
Comments:

Date(s): 8-30-95 Field Investigator(s): LW BD

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 9 W, SE 1/4 of Sec. 29 (Graded) Tillamook County Tax Lot: 1000 (Row crop) Site No.: JAC1-26 (UPL)
Drainage Basin & Plot Location: Nestucca Trask Creek; 100' N of ~~ash~~ dunelimit
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 26
Land Use & Condition: grazed pasture

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
FEAR	FAC-	35	H	✓	SETA (Trace)	FACU	<1	H	
AGST	FAC	35	H	✓	LCCO	FAC	1	H	
DAGL	FACU	20	H	✓					
TRRE	FAC	<1	H						
CIVU	FACU	<1	H						

Hydrophytic Vegetation? No 1/3 = 33 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	0- in.	10YR 2/2	Very moist - silt loam
	0-15 in.	10YR 2/1	SiCL, no mottles; moist
	15-20 in.	2.5Y 2/0	SiCL, no mottles; moist
	20-26 in.	10 YR 3/4	" " "
	>26 in.	10 YR 3/4	Few distint 2.5YR 3/6 mottles, very moist; SiC

Other Indicators: ✓ None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Quillayute silt loam Hydric Soils List:? No
Drainage Class: Somewhat poorly Criteria Depth: 0 in.
Hydric Soil? NO Rationale: Lacks sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: None in. Water Table & Depth: Not apparent in.
Hydrology Alteration: No
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 5 in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators.
Comments:

SUMMARY

Wetland? NO Rationale: All parameters lack positive indicators
Comments:

Date(s): 8-30-95 Field Investigator(s): LW BL SFM

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____
W22) % Cowardin classes present: POW ____ PEM X PSS X PFO X Other ____
W26) Urban veg. buffer (unmowed): MA >50 ft. ____ 25-50 ft. ____ <25 ft. ____
F30) Stream channel: MA Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: N/A ____
H36) Evidence of flooding? Yes ____ No X Describe ____
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No ____ Yes X Describe busy road - no sidewalk inter.
P44) Access exist/feasible: Non-ADA X ADA ____ Obs. only ____ Barriers: fences, pasture, uneven ground
R49) Trails/view areas? Existing ____ Potential ____ No existing or potential X
A52) Rural area visual contrast: Significant X Limited ____ Little/none ____
A53) Urban landscape: N/A Open/natural ____ Groomed ____ None ____
A54) Visual detractors? N/A Yes ____ No ____ A55) Easily removed? Yes ____ No ____ N/A

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland ____ Small portion X Describe edges of the forested
A59) No. of Cowardin classes visible: 2 or more X 1 ____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SE 1/4 of Sec. 25(DB) Tillamook County Tax Lot: 19000 Site No.: TRA1 - 58 (UPL)
Drainage Basin & Plot Location: drainage SW of John Main's development; below house, above bottom of swale
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 58
Land Use & Condition: ungrazed currently, grazed last summer

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Fear	Fac-	60	H	X					
Agrostis sp.	Fac	50	H	X					
← Cynosurus cristatus	UPL	<5	H						
Dagl	FACU	<5	H						

Hydrophytic Vegetation? No 1/2 = 50 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: Dom. by FAC & FAC-; other species non-hydrophytic.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-14 in.	10YR 3/3	none, SiL
BW	14-20 in.	" 4/4	none, SiL
C	>20 in.	2.5Y 3/2	none, SiL
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? No
Drainage Class: Moderately Well Drained Criteria Depth: 0 in.
Hydric Soil? no Rationale: Lacks sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: no
Inundation and Depth: no in. Water Table & Depth: Not apparent in.
Hydrology Alteration: Urban Development to North
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: All parameters lack sufficient indicators.
Comments:

Date(s): 8/29/95 9:45 am Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SW 1/4 of Sec. 25 (Divide) Tillamook County Tax Lot: 1100 Site No.: TRA1-59 (PEMC)
Drainage Basin & Plot Location: drainage SW of John Main's development
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 59
Land Use & Condition: currently ungrazed; grazed last summer + winter

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Juef	FACW	70	H	X					
Rave	FACW	40	H	X					
Fear	FAC-	20	H	X					

Hydrophytic Vegetation? yes 2/3 = 67 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: sharp transition from SP 58 following contour

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-8 in.	10YR 3/2	none SiL
B	8-14 in.	2.5Y 4/2	m, p. 7.5YR 3/4, SiL
B	14-20 in.	5Y 4/2	m, p. 5YR 4/6, SiL
B	>20 in.	2.5Y 4/2	c, fa. 10YR 3/3, SiL
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Brenner silt loam Hydric Soils List:? Yes
Drainage Class: Poorly Drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: depression
Inundation and Depth: No in. Water Table & Depth: Apparent at 8 in.
Hydrology Alteration: SW of urban development
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: 8 in.
Wetland Hydrology? Yes Rationale: Has sufficient positive indicators
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient indicators
Comments: John has 50' setback at this site.

Date(s): 8/29/95 10 am Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes ____ No X but grazed in past yr.
W22) % Cowardin classes present: POW ____ PEM X PSS ____ PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural X Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes ____ No X Describe ____
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA ____ ADA ____ Obs. only X Barriers: private property
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: Open/natural X Groomed ____ None ____
A54) Visual detractors? Yes ____ No X A55) Easily removed? Yes ____ No ____

From primary viewing area:
A56) Odors: Natural X Unnatural, occasional ____ Unnatural, continuous ____
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland ____ Small portion X Describe wlesEnds to West of right
A59) No. of Cowardin classes visible: 2 or more ____ 1 X

TIAL-60-(PSSCx,OBS)

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SW 1/4 of Sec. 25 (Index) Tillamook County Tax Lot: 3800 Site No.: from John Mecir (verbal permission second round)
Drainage Basin & Plot Location: former rock pit dug by John Mecir's dad, W+N of " " " to develop
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 60
Land Use & Condition: undeveloped, rel. undisturbed (truck tracks)

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Salix sitchensis	FACW	40	S	✓					
Juncus acuminatus	FACW	30	H	✓					
Carex	OBL	15	H						
Poa	OBL	40	H	✓					

Hydrophytic Vegetation? Yes 3 / 3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments: well developed artificial or artificially enhanced wetland. Was dug out by John Mecir's dad to get rock fill for Beachwood.

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
	in.	observation point - not evaluated	
	in.		
	in.		
	in.		
	in.		

Other Indicators: ___ None ___ Gleyed matrix ___ Histosol/Histic epipedon ___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Brenner silt loam Hydric Soils List:? Yes
Drainage Class: Criteria Depth: ___ in.
Hydric Soil? Yes Rationale: Mapped soil is listed as hydric
Comments:

HYDROLOGY

Landform/Topography: Low alluvial Terrace Wetland Drainage Pattern: Depression
Inundation and Depth: Unknown in. Water Table & Depth: unknown in.
Hydrology Alteration:
Other Indicators: ___ None X Sediment deposits ___ Water-stained leaves ___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? Yes Rationale: Mud flats in low area along chainlink fence. direct evidence of inundation
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient indicators.
Comments: former rock pit - now a pretty nice wetland

Date(s): 8/29/95 10:15 Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ~~XX~~ was excavated in past

W22) % Cowardin classes present: POW ____ PEM X PSS X PFO ____ Other ____

W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____

F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications X former rock pit

F31) Stream channel % shaded: ____

H36) Evidence of flooding? Yes X No ____ Describe mudflats

H37) Outflow restricted? Yes ? No ? unknown - similarly restricted

H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____

P42) Hazards to public? No ____ Yes ? X Describe old rock pit - possible hazards

P44) Access exist/feasible: Non-ADA X ADA view Obs. only ~~XX~~ Barriers: ~~private prop.~~

R49) Trails/view areas? Existing ____ Potential X No existing or potential ____

A52) Rural area visual contrast: Significant X Limited ____ Little/none ____

A53) Urban landscape: Open/natural X Groomed ____ None ____

A54) Visual detractors? Yes X No ____ A55) Easily removed? Yes X No ____ chain link fence across wetland

From primary viewing area: sewage trt plant nearby

A56) Odors: Natural ____ Unnatural, occasional X Unnatural, continuous ____

A57) Noise: Natural X Light+natural ____ Heavy+natural ____ Heavy intrusive ____

A58) View: Whole/most of wetland ____ Small portion X Describe wetland extends S

A59) No. of Cowardin classes visible: 2 or more X 1 ____

TRA1-61

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SW 1/4 of Sec. 25(CA) Tillamook County Tax Lot: 3909 Site No.: TRA1-61(UPL)
Drainage Basin & Plot Location: on bench above the rock pit in lot 3800
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 61
Land Use & Condition: John Main's N-most lot on Beachwood

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Agte	FAC	95	H	✓					
Fear	FAC-	10	H						
Plantago lanceolata	FAC	<5	H						
Hola	FAC	<5	H						
Anod	FACW	<5	H						

Hydrophytic Vegetation? YES 1/1 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-14 in.	10YR 3/2	none SiL
BW	14->24 in.	10YR 2/1-2	none SiL
	in.		
	in.		
	in.		

Other Indicators: X None ___ Gleyed matrix ___ Histosol/Histic epipedon
___ Concretions ___ Sulfidic odor ___ Sandy w/high organic content

Series/Phase: Nehalem silt loam Hydric Soils List:? No
Drainage Class: Moderately Well drained Criteria Depth: 0 in.
Hydric Soil? No Rationale: Lacks sufficient indicators in criteria depth
Comments:

HYDROLOGY

Landform/Topography: Alluvial Terrace Wetland Drainage Pattern: No
Inundation and Depth: none in. Water Table & Depth: Not apparent in.
Hydrology Alteration: Development to North
Other Indicators: X None ___ Sediment deposits ___ Water-stained leaves
___ Drift lines ___ Water marks ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? No Rationale: Lacks sufficient positive indicators
Comments:

SUMMARY

Wetland? No Rationale: Soil and hydrology parameters lack sufficient indicators
Comments:

Date(s): 8/29/95 10:30 Main Field Investigator(s): PS LB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16)	Soil tillage/compaction?	Yes _____ No _____
W22)	% Cowardin classes present:	POW _____ PEM _____ PSS _____ PFO _____ Other _____
W26)	Urban veg. buffer (unmowed):	>50 ft. _____ 25-50 ft. _____ <25 ft. _____
F30)	Stream channel:	Natural _____ Partly modified _____ Extensive modifications _____
F31)	Stream channel % shaded:	_____
H36)	Evidence of flooding?	Yes _____ No _____ Describe _____
H37)	Outflow restricted?	Yes _____ No _____
H38)	Inflow restricted?	No _____ Yes, can be remedied _____ Yes, cannot be remedied _____
P42)	Hazards to public?	No _____ Yes _____ Describe _____
P44)	Access exist/feasible:	Non-ADA _____ ADA _____ Obs. only _____ Barriers: _____
R49)	Trails/view areas?	Existing _____ Potential _____ No existing or potential _____
A52)	Rural area visual contrast:	Significant _____ Limited _____ Little/none _____
A53)	Urban landscape:	Open/natural _____ Groomed _____ None _____
A54)	Visual detractors?	Yes _____ No _____ A55) Easily removed? Yes _____ No _____

From primary viewing area:

A56)	Odors:	Natural _____ Unnatural, occasional _____ Unnatural, continuous _____
A57)	Noise:	Natural _____ Light+natural _____ Heavy+natural _____ Heavy intrusive _____
A58)	View:	Whole/most of wetland _____ Small portion _____ Describe _____
A59)	No. of Cowardin classes visible:	2 or more _____ 1 _____

TILLAMOOK, OREGON WETLAND INVENTORY — **SITE DATA SHEET**

T. 1S, R. 10 W, SW 1/4 of Sec. 25(CA) Tillamook County Tax Lot: 3908 Site No.: TRAI-62 (PEMCx)
Drainage Basin & Plot Location: former rock pit's E end
Normal Circumstances? Y Atypical Situation? N Problem Area? N Sample Point: 62
Land Use & Condition: undeveloped lot, w edge of town

VEGETATION

Species	Indicator Status	% Cover	Layer	Domin.	Species	Indicator Status	% Cover	Layer	Domin.
Caob	FACW	20	H	X					
Popa	OBL	40	H	X					
Juef	FACW	20	H	X					
Salix scouleriana	FAC	10	S						

Hydrophytic Vegetation? Yes 3/3 = 100 % of domin. species are OBL, FACW, FAC+ and/or FAC
Comments:

SOIL

Horizon	Depth	Matrix Color	Mottle Contrast & Color, Texture, Moisture, Other Characteristics
Ap	0-4 in.	10YR 2/1	too faint to distinguish, SiL, moist
B	4->16 in.	5Y 2.5/1	none, SiL, moist
	>16 in.	rock refusal	
	in.		
	in.		

Other Indicators: X None; ___ Gleyed matrix; ___ Histosol/Histic epipedon; ___ Concretions; ___ Sulfidic odor; ___ Sandy w/high organic content

Series/Phase: Brenner silt loam Hydric Soils List:? Yes
Drainage Class: Poorly-drained Criteria Depth: 12 in.
Hydric Soil? Yes Rationale: Has sufficient positive indicators.
Comments:

HYDROLOGY

Landform/Topography: Low alluvial Terrace Wetland Drainage Pattern: Depression
Inundation and Depth: none in. Water Table & Depth: ___ in.
Hydrology Alteration: Development to North
Other Indicators: X None; ___ Sediment deposits; ___ Water-stained leaves; ___ Drift lines; ___ Water marks; ___ Live oxidized rhizospheres

Saturation Criteria: 18 Days in growing season Depth of Major Portion of Root Zone: ___ in.
Wetland Hydrology? yes Rationale: sufficient indicators — wet drainage pattern.
Comments:

SUMMARY

Wetland? Yes Rationale: All parameters have sufficient indicators.
Comments: Hydrology needs verification.

Date(s): 8/29/95 10:45a Field Investigator(s): PS CB

OREGON FRESHWATER WETLAND ASSESSMENT METHODOLOGY NOTES:

W: Wetland character F: Fish habitat H: Hydrology P: Public Access R: Recreation A: Aesthetics

W16) Soil tillage/compaction? Yes X No ____ probable (was excavated)
W22) % Cowardin classes present: POW ____ PEM X PSS X PFO ____ Other ____
W26) Urban veg. buffer (unmowed): >50 ft. X 25-50 ft. ____ <25 ft. ____
F30) Stream channel: Natural ____ Partly modified ____ Extensive modifications ____
F31) Stream channel % shaded: ____
H36) Evidence of flooding? Yes X No ____ Describe cracked mud surface
H37) Outflow restricted? Yes ____ No X
H38) Inflow restricted? No X Yes, can be remedied ____ Yes, cannot be remedied ____
P42) Hazards to public? No X Yes ____ Describe ____
P44) Access exist/feasible: Non-ADA X ADA view Obs. only ____ Barriers: ____
R49) Trails/view areas? Existing ____ Potential X No existing or potential ____
A52) Rural area visual contrast: Significant ____ Limited X Little/none ____
A53) Urban landscape: to east Open/natural X Groomed ____ None ____
A54) Visual detractors? Yes X No ____ A55) Easily removed? Yes X No ____
cyclone fence

From primary viewing area:
A56) Odors: Natural ____ Unnatural, occasional X Unnatural, continuous ____ sewage ponds to NW
A57) Noise: Natural ____ Light+natural X Heavy+natural ____ Heavy intrusive ____
A58) View: Whole/most of wetland ____ Small portion X Describe N end of former rock pit
A59) No. of Cowardin classes visible: 2 or more X 1 ____

APPENDIX 5. MAPS