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CITY OF TUALATIN

NATURAL RESOURCE INVENTORY

and

LOCAL WETLANDS INVENTORY
"Off-site Option"

Prepared for:

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Appendix B: Table 3: Tualatin Forest Areas, Acreage, and Environmental and Social Values Assessment; Table 4: Tualatin Meadows, Acreage, and Environmental and Social Values Assessment; Upland Summary Sheets.

Appendix C: Table 5: Environmental and Social Values Assessment of Units and Isolated Sites; Environmental and Social Values Summary Sheets.

March 21, 1996

Will Harper, Associate Planner
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Dear Mr. Harper:

I am pleased to notify you that the Division of State Lands has approved your Local Wetlands Inventory (LWI). We appreciate your working closely with our staff and the wetland consultant to ensure that the inventory meets state LWI standards as set forth in OAR 141-86-180 to 240.

Approval by the Division means that the City of Tualatin Inventory becomes part of the Statewide Wetlands Inventory. It may be used as the foundation for subsequent Goal 5 planning for wetlands in the inventory area. Also, it must now be used in lieu of the National Wetlands Inventory for the Wetland Land Use Notification Process (ORS 227.350). Now that the inventory is final, you can begin notification to the owners of wetland parcels.

Division approval does not guarantee that the wetlands depicted on the maps are the only regulated wetlands in the inventory area, and there may be upland areas within the mapped wetlands. However, after a thorough review, my staff is comfortable that the inventory has incorporated most wetlands and waterways. Exact wetland boundaries have not been staked and surveyed, and there are inherent limitations in mapping accuracy. For these reasons, the Division generally advises anyone who proposes land alteration within 25 feet of a mapped wetland to obtain a wetland boundary delineation by a qualified consultant. If the wetland boundary is obvious (e.g., wetland is bordered by a parking lot or a hill slope), a delineation may not be required.

We are pleased that the City of Tualatin has made a thorough inventory and wetland planning a priority project.

Cordially,

Paul R Cleary

Paul Cleary
Director

wet:105
PC/bms

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EXECUTIVE SUMMARY

An inventory of natural resource areas within the City of Tualatin's Urban Growth Boundary (UGB) was conducted during the spring and early summer of 1995. The Tualatin UGB encompasses approximately 8.5 square miles (5,440 acres) and is situated at the southern end of the Portland, Oregon metropolitan area. Natural resource areas included wetlands, upland forests, and upland meadows. Each natural resource site was described, evaluated, field-mapped on aerial photographs (March, 1994; scale 1 inch = 400 feet), and digitized.

Fifty two wetlands were inventoried. Wetlands were identified based on the methodology contained in the 1987 Corps of Engineers Wetlands Delineation Manual and were inventoried and mapped according to Local Wetlands Inventory "Off-site Option" standards and procedures. The majority of wetlands were associated with drainages flowing into the Tualatin River, although four were associated with the Willamette River Basin. Wetland resource acreage totals approximately 355 acres within the study area, including 58 palustrine open water, 205 palustrine emergent, 16 palustrine scrub-shrub, and 76 palustrine forest wetlands. Wetland summary sheets are located in Appendix A of this report.

Forty six uplands were inventoried including 44 woodlands, and 2 meadows. The woodlands included 9 coniferous, 7 deciduous, and 28 mixed deciduous/coniferous; 32 of these were classified as riparian. Upland resource acreage totals approximately 342 acres including 338 forest and 4 meadow. Upland summary sheets are located in Appendix B of this report.

Six wetland and upland resource sites included geologic features (W31, F32, F33, F35, F36, and M2). One wetland included a relic tufted hairgrass prairie community (W21).

Ninety eight natural resource sites were inventoried and described. Contiguous resource sites were combined into resource units. Environmental and social values were assessed for each resource unit and isolated site. Environmental values included fish and wildlife habitat, ecologic integrity, connectivity, uniqueness, water quality, and hydrologic control. Social values included education, recreation, and aesthetics. Twenty six resource units and 23 isolated resource sites were evaluated (Appendix C). Assessments were used for recommending potential significant sites and resource units.

1 INTRODUCTION

The City of Tualatin contracted Fishman Environmental Services (FES) to conduct a Natural Resource Inventory within the city's Urban Growth Boundary (UGB) to meet the City's Periodic Review requirement and fulfill the requirements of Oregon's Department of Land Conservation and Development's (DLCD) Statewide Planning Goal 5. Funding for this project was provided by the DLCD as a Periodic Review Work Task Grant.

Natural resource areas were defined as wetlands and stream corridors, forests, meadows, and geologic areas. Wetlands were inventoried according to Division of State Lands (DSL) Local Wetlands Inventory "Off-site Option" (LWI) standards and procedures in OAR-141-86-180. Each natural resource site was mapped, described, and environmental and social values were assessed. The assessments can be used with the City's criteria to propose recommended significant resource sites.

This inventory is the initial step of the Goal 5 process and the City's Wetland and Natural Areas Plan project.. The next step will establish a formal determination of "significance" for each resource site. The process includes an evaluation of the environmental, social, economic, and energy consequences (ESEE analysis) of protecting or developing significant sites and establishing a plan to protect, conserve, or allow development.

1.1 Definitions of Natural Resource Areas

For the purposes of this study, natural resource areas are defined as wetlands and uplands that have substantially retained their natural character, but are not necessarily completely natural or undisturbed. They provide important environmental functions and habitat for plants, animals, and aquatic life. They are also important for education, recreation, research, and aesthetic appreciation.

1.1.1 Wetlands

Wetlands are areas of shallow groundwater tables or perched water; they typically contain hydric soils and vegetation is dominated by plants adapted for growing in wet conditions. They can provide critical habitat for fish and wildlife, water quality protection, hydrologic control, and recharge areas for groundwater. They also potentially provide education, recreation and aesthetic values.

1.1.2 Uplands

Upland forests include natural woodlands. They do not include overgrown Christmas tree farms where trees are even-aged and planted in rows or woodlands where understories are cleared and landscaped or used for storage. They were classified by type: deciduous, coniferous, mixed deciduous/coniferous, and riparian. Riparian forests are a type of woodland associated with a wetland or water feature but are not wetlands. All woodlands

potentially provide food, cover and nesting opportunities for wildlife. Riparian woodlands provide critical wildlife habitat because of their association with water; they also are important for reducing erosion on hillslopes, stabilizing stream banks, and protecting water quality. They shade streams, modulating air and water temperatures, and offer scenic vistas.

Upland meadows are areas dominated by grasses and forbs. They are used by a variety of species including butterflies, meadow mice, snakes, and as forage areas for predators such as red-tailed hawks. Mowed or grazed fields were not included in this inventory due to ongoing disturbance.

1.1.3 Geologic Areas or Features

Geologic features in Tualatin are associated with the Tonquin scabland and generally were created by Pleistocene floods. They include scoured bedrock with thin surface soils, large rounded boulders, exposed bedrock, and rock outcrops. They often support unique plant communities and are included as a unique feature of upland and wetland resources in this study.

1.2 Study Area

The study area is the City of Tualatin Planning Area. The study area includes approximately 5,484 acres, comprising 8.5 square miles on either side of the I-5 Corridor generally south of the Tualatin River. There are a few natural areas located on the north banks of the Tualatin and one in a commercial/industrial complex northeast of I-5 and the Tualatin River. The Planning Area is shown on the Natural Resource Inventory and Local Wetlands Inventory map.

The study area includes diverse land uses: commercial, industrial, and residential development; agricultural fields and pastures; landfill and quarry; and vacant land. The Western Industrial Area of Tualatin is a major regional industrial complex.

The Tualatin River ties many natural resource areas in Tualatin together through an extensive sub-basin system. Three streams, Hedges Creek, Nyberg Creek, and Saum Creek drain directly into the Tualatin. Hedges Creek flows through the core industrial area in west Tualatin, Nyberg Creek flows through the central commercial area and beneath I-5, and Saum Creek is located at the southeastern and eastern boundary of the study area in a residential area. Numerous small floodplain seeps, springs, and ponds collect water in the floodplain and/or drain into the Tualatin. Two additional minor drainages occur on the periphery of the study area and drain to the Willamette River.

The study area was divided into 7 drainage basins: Tualatin River, Hedges Creek, Nyberg Creek, Saum Creek, Cummins Creek (unofficial name), Lake Oswego, and Seely Ditch. Wetlands are generally located along these drainages within the Tualatin study area.

2 GENERAL METHODS

2.1 Sources of Information and Site Selection

A wide variety of source material was available for this study. The City of Tualatin's Wetland Database and Wetland Map were used as a starting point for identifying wetlands. The database provided detailed information on wetland resources including National Wetland Inventory (NWI) wetlands, potential, determined, and delineated wetlands, delineation date and delineator, permit information, and brief site or project descriptions. A composite map of hydric soils, NWI wetlands, and floodplain maps was also reviewed. City of Tualatin planning staff identified additional potential resource areas on the base map for field review.

The following sources were used to identify sites for field-checking:

Wetland Database and Wetland Map (City of Tualatin)
Wetland reports on file (City of Tualatin)
GIS coverage (Metro): USGS contours, soils, floodplain, National Wetlands Inventory, Parcels
Black and White Aerial Photographs (WAC): scale 1 inch = 400 feet, 3/27/94
Ortho-photoquads quarter section maps (Spencer B. Gross): 2 foot contour intervals: scale 1 inch = 100 feet, 4/26/87
Color-Infrared Aerial Photographs (Bergman): scale 1 inch = 400 feet, 6/11/89
National Wetlands Inventory: Tigard, Lake Oswego, Sherwood, and Canby, Oregon 7.5' quadrangle maps
U.S.G.S. Topographic 7.5' quadrangle maps: Tigard, Lake Oswego, Sherwood, and Canby, Oregon
Soil Survey and hydric soil list of Clackamas County Area, Oregon (USDA SCS 1985 and 1989)
Soil Survey and hydric soil list of Washington County, Oregon (USDA SCS 1982 and 1987)
Public Information Meetings

2.2 Site Identification and Numbering System

Resource site boundaries were established based on the following factors: significant changes in habitat; breaks in natural features created by roads, railways, or development; land ownership and land use. Each natural area was classified by resource type and numbered with an alphabetical-numeric code. The letters represent the resource classification: W=wetland, F=upland forest, M=upland meadow. Geologic resources were described on summary sheets of resource sites and identified on the inventory map.

Resource sites were also classified into resource units designated by drainage basin, stream reach, and zoning. Resource units include contiguous wetland and upland resources. Resource units were numbered with an alphabetical-numeric code; the letter in this case stands for the drainage (T=Tualatin, H=Hedges, N=Nyberg, S=Saum, C=Cummins, SD=Seely Ditch, LO=Lake Oswego) and the numbering begins at the downstream end of the corridor. For example, Unit H1 is located at the lower end of Hedges Creek and contains two resource sites, W22 and F43. If a resource site was isolated, it's resource unit was labeled with the letter of the drainage only (ie. H for Hedges Creek). Resource units were identified in order to assess environmental and social values and to facilitate future ESEE analysis.

2.3 Landowner Notification and Property Access Permission

Prior to any field work an extensive process was undertaken to allow landowners adequate notification of the intent and goals of the inventory project. A notification letter was sent by the City to property owners of potential natural resource areas and two public informational meetings were held where the public was invited to ask questions or give comments. As a result, City staff compiled a map depicting properties where access was denied or access was granted with specific conditions (i.e. phone notification of field date and/or landowner presence during field work). This map was used to determine which sites could be accessed for on-site information, and which sites had to be assessed from adjacent properties.

3 FIELD METHODS

3.1 Cartography

Sites were field-mapped on black and white orthophotos (scale: 1 inch = 100 feet) for greater accuracy where land use conditions had remained the same since 1987. If site conditions were significantly altered since 1987, boundaries were mapped on more recent aerial photos (March, 1994; scale: 1 inch = 400 feet) and transferred to the city base map of the same scale. Wetlands that were delineated within the last 5 years and approved by DSL were mapped consistently with the accepted delineation. Natural area boundaries were digitized onto AutoCad maps by George Roberts of Geo Graphic Image.

3.2 Wetlands

3.2.1 Wetland Identification and Classification

Wetlands were identified based on the methodology contained in the 1987 Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987). The regulatory definition of wetlands generally requires that wetlands contain indicators of three criteria: wetland

hydrology, hydric soil, and hydrophytic (water-tolerant) vegetation. Water quality ponds that were identified by the City of Tualatin were mapped as water quality ponds and not wetlands since they are not jurisdictional wetlands.

Each wetland was classified according to a modified Cowardin, et al. (1979): palustrine forest (PFO), palustrine scrub-shrub (PSS), palustrine emergent (PEM), open water (POW), and riverine-stream (R). The palustrine system includes all nontidal wetlands dominated by trees, shrubs, and persistent emergent vegetation. Special modifiers were used for describing disturbed wetlands (Cowardin, 1979): x=excavated, h=impounded/diked, d=partially drained/ditched, b=beaver, and f=farmed. For example, POWx represents an excavated pond and POWh represents an impounded pond.

3.2.2 Wetland Boundary Determination

All potential wetland sites in the Tualatin study area were field checked unless access was denied. Surface hydrology indicators, mapped soils, and dominant vegetation cover were documented for each site. If the site had been delineated and was recorded in the Tualatin Wetland Database, the date and the delineator were recorded and mapped wetland boundaries were confirmed. For other sites determinations were made by field-checking the site and recording hydrologic and vegetation data. Where access was denied, observations of hydrology and vegetation were made from adjacent vantage points. Boundary determinations for these sites rely on site visibility and aerial photography and should be considered preliminary.

Field verification using onsite wetland determination methods was used to characterize wetland types and to determine the wetland boundary on disturbed sites. Soils were not sampled unless the site had been disturbed and access was approved. Data sheets for disturbed sites, and for sites characterizing forested (PFO), scrub-shrub (PSS), and emergent (PEM) wetlands are located in Appendix A.

The wetland boundaries depicted on the Natural Resource Inventory and Local Wetlands Inventory Map are approximate. A formal wetland delineation will generally be needed prior to any site development in order to satisfy the legal requirements of DSL and the U.S. Army Corps of Engineers. Although efforts were made to ensure that no wetland areas within the study area were missed, there is no guarantee of this.

3.2.3 Wetland Summary Sheets

A summary sheet for each wetland resource site is included in Appendix A. Summary sheets include location information, quarter section map number (ortho-photoquad, 1987), aerial photo number (March, 1994), field date, and delineation date if applicable. They also include a general description of each site, hydrologic source, mapped hydric soils, dominant

vegetation, NWI classification, special modifier where appropriate, wetland boundary information, approximate wetland acreage, and important environmental and social values. Site acreages were calculated with AutoCad. For sites mapped on both sides of the study area boundary, calculated acreages do not include the area outside the boundary.

3.3 Uplands

3.3.1 Upland Identification

Upland natural areas were identified on black and white aerial photos (March 1994, scale: 1 inch = 400 feet). Uplands were classified as forests or meadows and field checked where access was permitted. Forests were classified by type: deciduous, coniferous, mixed deciduous-coniferous, and riparian. Deciduous woodlands were dominated by big leaf maple, *Acer macrophyllum,* Oregon white oak, *Quercus garryana,* or madrone, *Arbutus menziesii.* Coniferous woodlands were dominated Douglas fir. Mixed woodlands consisted of a fairly even mix of deciduous and coniferous trees. When a forest was associated with a water or wetland feature it was classified as riparian.

3.3.2 Upland Summary Sheets

Upland summary sheets include location information, resource type, quarter section map number (ortho-photoquad, 1987), aerial photo number (March, 1994), field date, and adjacent land use. These summary sheets also include a general site description with information about site quality and condition, a list of dominant species, site features (i.e. geologic features, trails or adjacent natural areas), and specific site impacts (i.e. garbage, invasive species, noise). Upland Summary Sheets are located in Appendix B.

4 RESULTS AND DISCUSSION

Ninety-eight natural area resource sites were inventoried for this project including 52 wetlands, 44 forests, and 2 meadows.

4.1 Wetlands Inventory

Fifty-two wetlands were inventoried (Table 1, Appendix A). Summary sheets are included in Appendix A. Wetland acreage totals approximately 355 acres within the City of Tualatin's UGB including approximately 76 palustrine forest, 16 palustrine scrub-shrub, 205 palustrine emergent, and 58 palustrine open water (Table 2, Appendix A).

Palustrine forested wetlands (PFO) in Tualatin are typically dominated by Oregon ash, Fraxinus latifolia, red alder, *Alnus rubra*, and Pacific willow, *Salix lasiandra*, with an understory of red-osier dogwood, *Cornus stolonifera*, Pacific ninebark, *Physocarpus*

capitatus, Piper's willow, *Salix piperi*, rose, *Rosa* species, reed canarygrass, *Phalaris arundinacea*, lady fern, *Athyrium filix-femina*, skunk cabbage, *Lysichitum americanum*, small-fruited bulrush, *Scirpus microcarpus*, and slough sedge, *Carex obnupta*. Palustrine scrub-shrub wetlands (PSS) in Tualatin are the least common type though scrub-shrub habitat is often a component of forested wetlands. They are dominated by black hawthorn, *Crataegus douglasii*, Pacific ninebark, red-osier dogwood, and Piper's willow. Palustrine emergent wetlands (PEM) are the primary wetland type in Tualatin. Vegetation is typically dominated by reed canarygrass; there are a few scattered pockets of native sedges and one small relic tufted hairgrass/sedge prairie (a portion of W21). Open water wetlands (POW) consist of ponds; many were created in floodplain wetlands in the Nyberg and Hedges Creek drainages to enhance wildlife habitat and retain water; others were created by quarry activities, excavation, or by damming channels (W25).

A few resource sites contain features that are unique in the Tualatin area. Site W21 includes a small relic wetland prairie. Site W31 includes geologic features. W42 supports turtles according to an employee who works in the vicinity; since native turtles are candidate threatened and endangered species, turtle use of this pond should be investigated. Osprey and bald eagle were observed by a resident in the vicinity of W7 in lower Saum Creek; it is notable that they were observed in an urban area.

4.2 Uplands Inventory

Forty six upland resource sites were inventoried including 44 woodlands and two meadows (Tables 3 and 4, Appendix B). Five upland sites included geologic features (M2, F32, F33, F35, F36). Upland summary sheets are included in Appendix B. Upland acreage totals approximately 342 acres within the UGB including 338 acres of woodland and 4 acres of meadows.

Woodland resource sites included seven deciduous, nine coniferous and 28 mixed deciduous/coniferous communities; 32 of these were classified as riparian. Forest resources in the UGB are dominated by maturing Douglas fir, *Pseudotsuga menziesii*, and big-leaf maple, *Acer macrophyllum*, with sub-dominant Oregon white oak, *Quercus garryana*, sweet cherry, *Prunus avium*, red alder, *Alnus rubra*, western red cedar, *Thuja plicata*, and western flowering dogwood, *Cornus nuttalli*. The majority of the woodlands are in fairly natural condition; they often contain pockets of invasive Himalayan blackberry, *Rubus discolor*, and/or English ivy, *Hedera helix*, but in most cases these can be removed. Many of the woodlands also contain multi-aged and multi-layered canopies with well-developed understories providing diverse opportunities for wildlife. Two forest communities located in the Tonquin scabland area are unique for Tualatin: F36 is dominated by Oregon white oak and F33 by madrone, *Arbutus menziesii*. Both communities are influenced by the shallow soils and rocky terrain that they inhabit.

Meadow resources in the UGB have been disturbed by landscaping, grazing, and mowing activities. Two meadows were inventoried. M1 was dominated by a mixture of non-native grasses and forbs; its location adjacent to the Tualatin River increased its importance. M2 consists of mosses and other species tolerant of shallow, scabland soils; it is especially unique for the variety of native grasses and wildflowers that it supports.

4.3 Natural Resource Units - Drainage Basins

All resource sites were classified by drainage basin; contiguous resource sites were also assigned to a resource unit designated by drainage basin, stream reach, and zoning (refer to Section 2.2 Site Identification and Numbering System). The study area was divided into 7 drainage basins including 26 resource units and 23 isolated sites. Drainage basins include: Tualatin River, Hedges Creek, Nyberg Creek, Saum Creek, Cummins Creek, Lake Oswego, and Seely Ditch.

The Tualatin River ties many natural resource sites together. The Tualatin River basin for this study includes the Tualatin River, a riparian corridor on both sides of the river (F43), a few narrow wetlands on its banks (W18 W51, W52), seeps and springs located in the floodplain (W12-17, W19-21, W45), and contiguous woodlands and meadows (F14-F20, F42, F43, M1). The Tualatin River basin consists of seven resource units: T1 (W12-14, W50, M1, F14, F15, F43), T2 (W15, W16, F16, F43), T3 (F17, F43), T4 (F18, F43), T5 (W17, W18, W52, F43), T6 (W19-W21, F19, F20, F29, F43), and T7 (W45, W51, F42, F43). All of these resource units provide important wildlife habitat for resident and migratory species, wildlife travel corridors, and aesthetics for the community. It also includes one isolated forest (F38) which is located northeast of Highway 99W and Tualatin Road.

Hedges Creek flows from two branches in south Tualatin (Ibach Park and Tonquin Lake). After crossing Tualatin-Sherwood Road, the creek flows through flat, low-lying agricultural and industrial lands in an area that serves as a regional industrial complex. The channel is well-defined in most areas and its course has been altered due to past agricultural activities. Hedges Creek contains one of the largest wetland areas in Washington County. It contains broad emergent wetlands with scattered ponds. Nineteen wetlands and 13 upland forests and one upland meadow were identified in the Hedges Creek drainage. Hedges Creek drainage basin includes 9 resource units: H1 (W22, F43), H2 (W23, W48, F21-F23), H3 (W35, F24), H4 (W34, F44), H5 (W24, F26), H6 (W26, F27), H7 (W27, F28), H8 (W29, F31), and H9 (W32, W33, M2, F32, F33). It also includes 10 isolated sites: 7 wetlands (W25, W28, W36, W40, W43, W46, W47) and 3 upland forests (F37, F40, F41). The Tonquin Lake area of Hedges Creek included unique geologic features (F32, F33, M2).

The drainage identified locally as Cummins Creek flows in a well-defined altered channel through the west end of the Western Industrial area to Rock Creek. The stream is contiguous with wetland and upland sites in resource unit C1 (W37, W38, F25) and interspersion is high. A few isolated excavated ponds are also present in this drainage basin (W49).

Nyberg Creek flows through the central commercial section of Tualatin east beneath I-5 to the Tualatin River. It flows through a well-defined channel that has been altered. Six wetlands and four upland forests were identified in the Nyberg drainage. Nyberg Creek drainage basin contains three resource units: N1 (W1, W2, F1), N2 (W3, F2), and N3 (W4, F3) and three isolated sites (W5, W6, W39, F4).

Saum Creek is located in the vicinity of the eastern and southeastern boundary of the City's UGB. It generally flows through a natural channel through the study area. Five wetlands were identified in the Saum Creek drainage (W7-W11) and are associated with five upland resource sites (F5, F6, F8, F10, F13). Saum Creek contains four resource units: S1 (W7, W8, F13), S2 (W9, F5, F6), S3 (W10, F8), S4 (W11, F10, F39). It also includes four isolated forest resource sites (F7, F9, F11, F12).

Lake Oswego drainage includes one resource unit LO1 (W41, W42, F30), which includes a spring, pond, drainage and adjacent forest north of GI Joes. These resource sites have been extensively altered by development and water quality has been degraded due to industrial runoff. Turtles have been observed in W42 by employees who work in the vicinity; it is important to verify turtle species since the western pond and painted turtles are candidate threatened and endangered species.

Seely Ditch drains south to the Willamette River, adjacent to a new residential area that is currently under construction. One natural resource unit, SD1 (F35, F36, W31), and one isolated pond (W30) occur in this drainage. SD1 also includes geologic features.

5 ENVIRONMENTAL and SOCIAL VALUES ASSESSMENT

Environmental and social values were assessed for each natural resource unit and isolated resource site (Table 5, Appendix C). Natural resource units include contiguous wetland and upland resource sites. They typically are large and contain more diverse habitats and features than isolated sites. Isolated resource sites are surrounded by development or roadways and are not contiguous with other resource areas. A summary sheet evaluating each resource unit or isolated natural area is included in Appendix C. Assessment criteria were standardized as described below.

5.1 Assessment Criteria

Environmental values include: wildlife habitat, fish habitat, water quality (wetlands), water quality protection (uplands), hydrologic control, ecological integrity, connectivity, and uniqueness. Social values include: education potential, recreation, and aesthetics. A description of each attribute and specific assessment criteria are provided below:

Wildlife Habitat - evaluates habitat diversity. Areas with permanent or seasonal water, diverse vegetation and structure, and interspersion of plant communities rate high compared to areas without water, low structural diversity, and/or single type plant communities. Wildlife habitat value also increases with the size of the site and linkage to other open space habitat.

Fish Habitat - evaluates how the resource area contributes to fish habitat in streams, ponds or lakes. Fish habitat rates high if potential fish habitat exists; low if too small or ephemeral to support fish.

Water Quality - evaluates the potential of the wetland resource area to reduce the impacts that excess nutrients and sediments in runoff water may have on downstream waters. In wetlands maximum nutrient and sediment uptake occurs when the flood plain consists of more than 70% wetland vegetation and a size greater than 5 acres. Urban wetlands adjacent to streams provide greater water quality benefits than isolated wetlands. Water Quality rates high if the site is downstream from a source of excess nutrients, stream side vegetation zone is greater than 50 feet wide, or the floodplain is greater than 25 feet. A medium rating is given if the floodplain is between 5 and 25 feet wide. A low rating is given if the floodplain is less than 5 wide or the site is not downstream from a source of excess nutrients or is not in the floodplain.

Water Quality Protection - evaluates the potential of the upland resource to protect contiguous wetlands. Riparian uplands adjacent to streams maximize water quality protection from surface water runoff if the riparian zone is greater than 50 feet wide, well vegetated, and has a well-established duff layer. Well-vegetated slopes also minimize erosion. Water quality protection rates high on moderate and steep slopes adjacent to a stream if well vegetated; high next to the Tualatin River if well vegetated; medium if duff is patchy; low if hillslopes are eroding or not well-vegetated.

Hydrologic Control - evaluates the effectiveness of the wetland in storing floodwaters and reducing downstream flood peaks. Wetlands connected with streams during high water events provide flood attenuation. Isolated wetlands provide less hydrologic control. The size of the wetland in the floodplain is also critical; large wetlands (greater than 5 acres) rate high compared to small (less than 0.5 acre) wetlands that rate relatively lower. Hydrologic control rates: high if the wetland is located in a broad floodplain downstream from major runoff sources; medium if has potential to retain water; and low if wetlands are too small or not appropriately located.

Ecological integrity - evaluates the conditions of native site vegetation. If vegetation is dominated by a mixture of native species with limited invasive species influence, it rates high. Sites with mostly native species and with invasive species that could be removed rate medium. Sites strongly impacted by invasive species (Himalayan blackberry, reed canarygrass, English ivy) rate low.

Connectivity - evaluates the importance of linkage or continuity of a resource site to allow wildlife passage between larger habitat units or genetic flow between plant populations. Connectivity rates high if sites are large and connected to drainage corridors and low if isolated.

Uniqueness - evaluates the uniqueness of the resource. Uniqueness rates high if the site contains a federal or state categorized species or critical habitat, unique plant community (age, species composition, etc.), or geologic feature; medium for high quality common habitat; low for none of the above.

Educational potential - evaluates the suitability of the resource area for educational opportunities for schools, Parks and Recreation Programs, or research opportunities for the scientific community. This value is dependent on safe public access, habitat condition, proximity to schools, and type of resource (uniqueness of habitat for special studies). Educational potential rates high if the potential opportunities described above are present and low if no opportunities are available.

Recreation - evaluates the suitability of the resource area for passive recreational activities. This value relies on safe public access, trails, boat launch, aesthetic and scenic values and low probability that recreational use will adversely affect environmental values.

Aesthetic Quality - evaluates the visual and aesthetic quality of the resource area. Natural settings with diverse vegetation and tranquility rate high compared to areas with low vegetation diversity, constant traffic noise, and unnatural smells. View sheds observed from main roads and noise buffers separating land uses also rate high.

5.2 Significance Recommendations

The determination of resource site significance will be the first task in Phase 2 of the Tualatin Goal 5 study and will be conducted by City staff, interested citizens, property owners, with assistance from consultants. The first step in determining significance is to identify resource areas that are already determined "significant" in city code or plan documents (ie. Wetland Protection District, Greenway Protection Overlay District). For these resource areas, this report documents the environmental and social factors that make these areas significant.

Significance determination for remaining portions of resource units and resource sites should be based on the environmental and social values assessment presented in this document. The recommended criteria include:

Environmental Values

- E1 Presence of state or federal categorized species (or critical habitat) or physical feature
- E2 Presence of native plant communities exhibiting high ecological integrity
- E3 Fish and wildlife habitat value
- E4 Water quality or hydrology functional values
- E5 The site is important for the function or integrity of the ecosystem
- E6 Site contains fish and wildlife species, wildlife habitat, plant communities or geologic features that are unique in the Tualatin area

Social Values

- S1 Educational value or potential value
- S2 Aesthetic and/or scenic or buffering qualities
- S3 Opportunity for passive recreation

Based on field work and assessments conducted in 1995, FES proposes that the following resource sites be considered as significant:

1. All resource sites that are part of larger natural resource units.
2. Isolated sites that contain a minimum of 1 high value or 1 medium environmental value and 1 medium rated social value.

6 ACKNOWLEDGMENTS AND PROJECT STAFF

Fishman Environmental Services would like to express our appreciation to the members of the Tualatin area for their support and interest in this project especially those people who shared their wildlife observations and other local knowledge with us. Special thanks go to Jim Jacks, Will Harper, Doug Rux, Jim Barta, and Joan Batten of the Planning Department, and Paul Hennon and Virginia Dodson of the Parks and Recreation Department, of the City of Tualatin, for their assistance in this project. The information contained within this inventory is a critical first step to protecting significant natural resources. We hope this inventory and assessment will assist the City in formulating wise land use decisions.

Project Staff

Fishman Environmental Services

Christie Galen, B.S. Ecologist; Project Manager

Ms. Galen's areas of expertise include natural resource inventories, wetland functions and values assessment, habitat restoration and monitoring, and threatened and endangered species inventories and evaluations. She conducted field work and prepared the final document.

C. Mirth Walker, B.A. Wetlands Program Manager

Ms. Walker is an expert in conducting wetland determinations and delineations, performing natural resource inventories, and preparing wetland mitigation plans. She assisted with the field inventory for this project and documentation.

Mark Vlahakis, B.S. Soil Scientist

Mr. Vlahakis' expertise is in conducting wetland delineations and preparing mitigation plans. He field verified wetland sites.

Paul A. Fishman, M.S., C.E.P. Senior Ecologist

Mr. Fishman has extensive experience in ecological studies, natural resource management, and public facilitation. He coordinated project team meetings and provided quality assurance review for this project.

Geo Graphic Image

George Roberts, Graphics Specialist

Mr. Roberts has extensive experience in the use of AutoCad software for mapping applications, specifically natural resources as part of land use planning and zoning projects. He prepared base maps, inventory maps and calculated acreage of resource sites.

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APPENDICES

APPENDIX A: Wetland Summary Sheets, including Tables 1 & 2 and Wetland Data Sheets of Selected Sites for Characterization and for Disturbed Sites

APPENDIX B: Upland Summary Sheets, including Tables 3 & 4

APPENDIX C: Environmental and Social Values Summary Sheets, including Table 5

APPENDIX A

Table 1. Tualatin Wetlands Acreage and Environmental and Social Values Assessment

Table 2. Tualatin Wetlands Classification and Acreage

Wetland Summary Sheets

Wetland Data Sheets of Selected Sites for Characterization and for Disturbed Sites

Table 1. Tualatin Wetlands Acreage and Environmental and Social Values Assessment

#	Unit	Location	Acres	WH	FISH	EI	C	U	WQ	HC	ED	REC	AQ
W1	N1	North of Nyberg Lane	2.47	H	H	H	H	L	L	L	H	H	H
W2	N1	Nyberg Cr. : 65 Ave. - Nyberg Lane	8.47	H	H	L	H	L	H	H	L	L	H
W3	N2	Nyberg Cr. : I-5 - 65th Ave.	31	H	H	L	H	L	H	H	H	H	H
W4	N3	Nyberg Cr. : Martinazzi - I-5	11.64	H	H	L	H	L	H	H	L	L	H
W5	N	Nyberg Cr. : Boones Ferry to Martinazzi	0.71	L	H	L	M	L	ML	M	L	M	M
W6	N	Todd Village Apts.	0.31	L	L	L	L	L	L	L	L	L	M
W7	S1	Saum Cr.: Borland - Tualatin River	2.38	H	H	M	H	M	H	H	L	M	H
W8	S1	Saum Cr.: Prosperity Park Rd-Borland Rd	1.88	MH	H	L	M	L	H	H	L	M	H
W9	S2	Saum Cr.: 65th Ave. - Prosperity Park Rd	13.23	MH	H	L	M	L	H	H	L	L	H
W10	S3	Saum Cr.: I-5 - 65th Ave.	14.59	MH	H	L	M	L	H	H	H	H	H
W11	S4	Dakota Cr. NE of Blake/Martinazzi	0.49	M	L	L	L	L	M	L	L	H	H
W12	T1	NE of E. end of Nyberg Ln.	0.24	M	L	L	M	L	L	L	L	L	M
W13	T1	North of Nyberg Lane	1.14	H	L	H	H	M	L	L	H	L	H
W14	T1	NW of Nyberg Ln. / 57 Ave.	2.09	H	H	M	H	L	M	L	H	H	H
W15	T2	West of Forest Rim Apts	1.81	H	M	H	L	M	L	L	L	L	H
W16	T2	N. of Sweetbrier Inn	1.99	H	L	M	M	L	L	L	L	L	H
W17	T5	Between Tual. Country Club & City Park	3.37	H	M	M	M	L	M	L	L	L	H
W18	T5	Tualatin Country Club	2.06	H	H	L	H	L	M	L	L	M	H
W19	T6	NE of Cheyenne Way	6.7	H	M	L	H	L	M	L	H	H	H
W20	T6	East of Jurgens Lane	10.25	M	L	L	L	L	M	L	L	L	M
W21	T6	N. of Hazelbrook Rd.	12.66	H	L	H	H	H	M	L	H	H	H
W22	H1	Hedges Cr. E. of Tualatin Rd.	1.52	M	H	L	H	L	M	M	H	H	H
W23	H2	Wetland Protection District	61.21	H	H	L	H	H	H	H	H	H	H
W24	H5	SW of Avery / Tualatin-Sherwood Rd.	1.57	MH	H	L	L	L	H	H	L	L	H
W25	H	NW of Industrial Way	5.37	M	H	L	L	L	M	H	L	M	M
W26	H6	NW of 105th / Blake St.	1.01	H	H	L	ML	L	H	H	L	ML	H
W27	H7	SEof 105th / Blake St.	2.4	H	H	L	H	M	M	M	H	H	H
W28	H	Ibach Greenway	0.77	M	H	L	M	L	L	L	M	H	H
W29	H8	N. of Taylors / Ibach	0.32	M	H	M	M	L	L	M	L	M	H
W30	SD	between Grahams Ferry & Boones Ferry	0.03	M	L	L	L	H	L	L	M	L	M
W31	SD1	East of Grahams Ferry	1.96	H	L	M	M	L	M	M	L	L	H
W32	H9	S. of Industrial Way / 108th	13.53	H	H	H	H	H	H	H	H	L	H
W33	H9	W. Fork of Hedges Cr. ; S. of Tual.- Sher.	2.07	M	L	L	L	L	L	L	L	L	M
W34	H4	WIA : Myslony - Tualatin-Sherwood Rd.	36.01	M	H	L	M	L	M	M	L	L	M
W35	H4	S. of Herman Rd.	30.26	H	H	M	H	M	H	H	L	L	H
W36	H	WIA N. of Herman Rd., E. of 124th	24.83	L	H	L	L	L	M	M	L	L	M
W37	C1	(WIA) N. of Herman, W. of 124th	23.29	H	H	MH	H	L	H	H	L	L	H
W38	C1	Grimm's Fuel Co., SE of Cipole/Hwy 99W	4.55	H	H	M	H	L	H	H	L	M	H
W39	N	NE of Avery / 93rd	0.25	M	L	L	L	L	M	L	L	L	M
W40	H	SE of Tual. - Sherwood Rd. / Teton Rd.	4.8	M	L	L	L	L	M	L	L	L	M
W41	L01	N of GI Joes	0.86	M	L	L	L	L	L	L	L	L	M
W42	L01	N of GI Joes	0.47	M	M	L	L	M	L	M	L	L	H
W43	H	NE of 118th / Myslony	0.15	L	L	L	L	L	L	L	L	L	L
W44	H	NE of 118th / Myslony	filled	L	L	L	L	L	L	L	L	L	L
W45	T7	SW of Tualatin River/Hwy 99W	0.75	M	L	L	L	L	L	L	L	M	H
W46	H	Industrial Way / 108th	0.05	L	L	L	L	L	L	L	L	L	L
W47	H	SW of Ibach / Boones Ferry Rd.	2.15	M	L	L	L	L	M	L	L	L	M
W48	H2	NW of Boones Ferry / Tualatin Rd	1.96	H	L	L	H	L	M	M	H	H	H
W49	C	Grimm's Fuel Co., SE of Cipole/Hwy99W	1.83	H	H	L	L	L	L	L	L	L	M
W50	T1	North of Natchez Ct.	0.18	H	H	M	H	L	M	L	L	M	H
W51	T7	North of Cipole / Hwy 99W	0.84	H	L	L	H	L	M	L	L	L	H
W52	T5	NW of Tualatin River / Oregon El. RxR	1.06	H	H	M	H	L	M	L	L	L	H
			355.5										

WH = Wildlife Habitat
FISH = Fish Habitat
EI = Ecological Integrity
C = Connectivity
U = Uniqueness
WQ = Water Quality
HC = Hydrologic Control
ED = Education Potential
REC = Recreation
AQ = Aesthetic Quality

Fishman Environmental Services

Table 2. Tualatin Wetlands Classification and Acreage

#	Unit	Location	Acres	POW	POWx	POWh	POWb	PEM	PEMx	PEMh	PEMd	PEMf	PSS	PFO
W1	N1	North of Nyberg Lane	2.47	0.05	-	-	-	0.12	-	-	-	-	-	2.30
W2	N1	Nyberg Cr. : 65 - Nyberg Lane	8.47	-	0.85	-	-	7.62	-	-	-	-	-	-
W3	N2	Nyberg Cr. : I-5 - 65th Ave.	31.00	-	7.13	-	-	23.25	-	-	-	-	-	0.62
W4	N3	Nyberg Cr. : Martinazzi Rd. - I-5	11.64	-	-	-	-	5.82	-	-	-	-	-	5.82
W5	N	Nyberg Cr. : Boones Ferry to Martinazzi	0.71	-	-	-	-	-	0.71	-	-	-	-	-
W6	N	Todd Village Apts.	0.31	-	-	-	-	-	-	-	-	-	-	0.31
W7	S1	Saum Cr. : Borland - Tualatin River	2.38	-	-	-	-	-	-	-	-	-	-	2.38
W8	S1	Saum Cr. : Prosperity Park Rd.- Borland	1.88	-	-	-	-	-	-	-	-	-	-	1.88
W9	S2	Saum Cr. : 65th - Prosperity Park Rd.	13.23	-	-	-	-	-	3.31	-	-	-	-	9.92
W10	S3	Saum Cr. : I-5 - 65th Ave.	14.59		-	2.19	-	-	-	2.92	-	-	-	9.48
W11	S4	Dakota Cr. NE of Blake/Martinazzi Rd.	0.49	-	-	-	-	-	-	-	-	-	-	0.49
W12	T1	NE of E. end of Nyberg Ln.	0.24		0.21	-	-	-	-	-	-	-	-	0.03
W13	T1	North of Nyberg Lane	1.14	-	-	-	-	-	-	-	-	-	-	1.14
W14	T1	NW of Nyberg Ln. / 57th Ave.	2.09	0.84	-	0.41	-	0.84	-	-	-	-	-	-
W15	T2	West of Forest Rim Apts	1.81	0.77	0.52	-	-	-	-	-	-	-	-	0.52
W16	T2	North of Sweetbrier Inn	1.99	0.19	-	-	-	0.90	-	-	-	-	-	0.90
W17	T5	Between Tual. Country Club & City Park	3.37	0.34	-	-	-	3.03	-	-	-	-	-	-
W18	T5	Tualatin Country Club	2.06	-	0.96	-	-	-	-	-	-	-	-	1.10
W19	T6	NE of Cheyenne Way	6.70	-	1.00	-	-	3.35	-	-	-	-	-	2.35
W20	T6	East of Jurgens Lane	10.25	-	-	-	-	10.25	-	-	-	-	-	-
W21	T6	North of Hazelbrook Rd.	12.66	-	-	-	-	7.48	-	-	-	-	-	5.18
W22	H1	Hedges Creek east of Tualatin Rd.	1.52	-	-	-	-	-	-	-	-	-	-	1.52
W23	H2	Wetland Protection District	61.21	-	21.00	-	0.21	35.00	-	-	-	-	-	5.00
W24	H5	SW of Avery / Tualatin - Sherwood Rd.	1.57	-	-	-	-	0.79	-	-	-	-	-	0.78
W25	H	NW of Industrial Way	5.37	-	-	3.22	-	2.15	-	-	-	-	-	-
W26	H6	NW of 105th / Blake St.	1.01	-	-	-	-	-	-	-	-	-	-	1.01
W27	H7	SE of 105th / Blake St.	2.40	-	-	-	-	-	-	-	-	-	-	2.40
W28	H	Ibach Greenway	0.77	-	-	-	-	-	-	-	-	-	-	0.77
W29	H8	N. of Taylors / Ibach	0.32	-	-	-	-	-	-	-	-	-	-	0.32
W30	SD	between Grahams Ferry & Boones Ferry	0.03	-	-	-	-	-	-	-	-	-	-	0.03
W31	SD1	East of Grahams Ferry	1.96	-	-	-	-	-	-	-	-	-	-	1.72
W32	H9	S. of Industrial Way / 108th	13.53	6.77	-	-	-	1.35	-	-	-	-	4.74	0.67
W33	H9	W. Fork of Hedges Cr.; S. of Tual.- Sher.	2.07	-	-	-	-	-	-	-	-	-	-	2.07
W34	H4	WIA : Myslony - Tualatin-Sherwood Rd.	36.01	-	1.80	-	-	-	-	-	-	34.21	-	-
W35	H4	S. of Herman Rd.	30.26	-	1.51	-	-	22.70	-	-	-	-	-	6.05

POW = Palustrine Open Water
POWx = Palustrine Open Water, excavated
POWh = Palustrine Open Water, impounded
POWb = Palustrine Open Water, beaver

PEM = Palustrine Emergent
PEMx = Palustrine Emergent, excavated
PEMh = Palustrine Emergent, impounded
PEMd = Palustrine Emergent, drained
PEMf = Palustrine Emergent, farmed

PSS = Palustrine Scrub-Shrub
PFO = Palustrine Forested

Table 2. Tualatin Wetlands Classification and Acreage, continued

#	Unit	Location	Acres	POW	POWx	POWh	POWb	PEM	PEMx	PEMh	PEMd	PEMf	PSS	PFO
W36	H	WIA N. of Herman Rd., E. of 124th	24.83	-	-	-	-	21.11	-	-	-	-	3.72	-
W37	C1	(WIA) W. of 124th	23.29	-	2.78	-	-	8.15	-	-	1.16	-	6.54	4.66
W38	C1	Grimm's Fuel Co., SE Cipole/Hwy 99W	4.55	-	2.73	-	-	1.14	-	-	-	-	0.46	0.22
W39	N	NE of Avery / 93rd	0.25	-	-	-	-	-	-	-	-	-	-	0.25
W40	H	SE of Tual. - Sherwood Rd. / Teton Rd.	4.80	-	0.72	-	-	3.36	-	-	-	-	-	0.72
W41	L01	N of GI Joes	0.86	-	-	-	-	-	0.43	-	-	-	-	0.43
W42	L01	N of GI Joes	0.47	0.33	-	-	-	0.09	-	-	-	-	-	0.05
W43	H	NE of 118th / Myslony	0.15	-	-	-	-	-	-	-	-	-	0.15	-
W44	H	NE of 118th / Myslony	filled	-	-	-	-	0.41	-	-	-	-	-	-
W45	T7	SW of Tualatin River/Hwy 99W	0.75	-	-	-	-	0.75	-	-	-	-	-	-
W46	H	Industrial Way / 108th	0.05	0.01	-	-	-	0.01	-	-	-	-	-	0.03
W47	H	SW of Ibach / Boones Ferry Rd.	2.15	-	-	-	-	2.15	-	-	-	-	-	-
W48	H2	NW of Boones Ferry / Tualatin Rd	1.96	-	0.78	-	-	-	0.98	-	-	-	-	0.20
W49	C	Grimm's Fuel Co., SE Cipole/Hwy 99W	1.83	-	1.19	-	-	-	-	-	-	-	-	0.64
W50	T1	North of Natchez Ct.	0.18	-	-	-	-	-	-	-	-	-	-	0.18
W51	T7	North of Cipole / Hwy 99W	0.84	-	-	-	-	-	-	-	-	-	-	0.84
W52	T5	NW of Tualatin River / Oregon El. RxR	1.06	-	-	-	-	-	-	-	-	-	-	1.06
		TOTAL	355.53	9.30	43.18	5.82	0.21	161.82	5.43	2.92	1.16	34.21	15.61	76.04

POW = Palustrine Open Water
POWx = Palustrine Open Water, excavated
POWh = Palustrine Open Water, impounded
POWb = Palustrine Open Water, beaver

PEM = Palustrine Emergent
PEMx = Palustrine Emergent, excavated
PEMh = Palustrine Emergent, impounded
PEMd = Palustrine Emergent, drained
PEMf = Palustrine Emergent, farmed

PSS = Palustrine Scrub-Shrub
PFO = Palustrine Forested

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: N1	**WETLAND:** W1	**Acreage:** 2.47	**Field Date:** 4-19-95
Location: Nyberg Creek N of Nyberg Ln			**Tualatin Data Base No:** 38.035
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19 **Quarter:** NW		**Map No:** 4923 **Aerial:** 3

General Description: The narrow strip of riparian vegetation along the stream also includes red hawthorn, Douglas fir, western hazelnut, big leaf maple, serviceberry, snowberry, Pacific dogwood, and Himalayan blackberry. The stream corridor and surrounding lands are located in Browns Ferry Park. The park land is undeveloped but is used by Willowbrook arts and nature summer day camp.

Delineation Date and Delineator: 1983, ACOE; 1995 FES (South Portion)

NWI Classification: 2% POW, 5% PEM, 93% PFO

Mapped Soils: 84 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Nyberg Creek

Hydrologic Source/Comments: Seep to west of creek; creek ≈ 10 ft wide, channel 20 ft wide; water much lower than 2 weeks previous. Banks ≈ 15 ft near mouth.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Fraxinus latifolia*	*Physocarpus capitatus*	Meadow:
Acer circinatum	*Rosa nutkana*	* *Alopecurus pratensis*
	Urtica dioica	* *Juncus tenuis*
		Creek:
		* *Juncus effusus*
		* *Scirpus microcarpus*

Boundary Information: Topographic break; vegetation change → red hawthorn, Himalayan blackberry, Douglas fir, and orchard grass. The wetland boundary is located below ordinary high water (114.5 ft).

Wetland Functions: W1 is directly connected to the Tualatin River. It provides high wildlife habitat value and a refuge from flooding. Wildlife include a variety of songbirds, mallard, Canada goose, wood duck, great blue heron, woodpeckers, nutria, opossum, garter snakes, and a variety of other small wildlife species.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: N1	**WETLAND:** W2	**Acreage:** 8.47	**Field Date:** 4-19-95
Location: Nyberg Cr.: 65th Ave. to Nyberg Ln.			**TDB No:** 38.030-38.033
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19 **Quarter:** SW		**Map No:** 5023 **Aerial:** 3

General Description: W2 is an emergent wetland located in the Nyberg Creek floodplain. The creek has been channelized through the site and a pond with a couple of islands has also been constructed.

Delineation Date and Delineator: 1983, ACOE; 1995 FES (north portion)

NWI Classification: 10% POWx, 90% PEM

Mapped Soils: 25 Cove Silty clay loam, 84 Wapato Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Nyberg Creek

Hydrologic Source/Comments: Nyberg Creek; 3 concrete culverts under Nyberg Lane.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
	Rosa sp	* *Alopecurus pratensis*
	* *Salix* sp	* Graminae
		Juncus effusus
		Iris pseudacorus

Boundary Information: Topographic break; vegetation on south changes to Himalayan blackberry deciduous upland forest. Road berm on north; gradual vegetation change to the east → grazed grass.

Wetland Functions: High wildlife habitat values for winter waterfowl. Livestock impact soils and water quality.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: N2	**WETLAND:** W3	**Acreage:** 31.0	**Field Date:** 4-19-95
Location: Nyberg Creek: I-5 to 65th Ave.		**Tualatin Data Base No:** 38.019-33.030	
Lake Oswego Quadrangle	T2S R1W **Sec.:** 24 **Quarter:** SE	**Map No:** 5022	**Aerial:** 3

General Description: The east half of W3 contains mitigation/enhancement ponds and is managed by the Wetlands Conservancy. It provides winter and nesting habitat for waterfowl and wetland species including mallard, Canada goose, American coot, teal, swallow, song sparrow, and amphibian breeding sites.

Delineation Date and Delineator: 1983, ACOE; 1991, JD White Co.; 1991 (portion), W&H Pacific (portion); 1995, FES (portion)

NWI Classification: 23% POWx, 75% PEM, 2% PFO

Mapped Soils: 43 Wapato Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Nyberg Creek

Hydrologic Source/Comments: Nyberg Ck; stream tributary from south just east of I-5; probably seeps at slope base; wooden weir dam east of western property boundary.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
	Rubus discolor	Graminae
	Rosa sp	* *Alopecurus pratensis*
	Salix lasiandra	*Phalaris arundinacea*
	Spirea douglassi	*Juncus effusus*
		Typha latifolia
		Scirpus microcarpus
		Dipsacus sylvestris
		Equisetum sp.

Boundary Information: Distinct topographic break; often fill material; vegetation generally changes to Himalayan blackberry, red hawthorn, cherry, and black cottonwood.

Wetland Functions: High values for wildlife habitat, water quality and hydrologic control.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: N3	**WETLAND:** W4	**Acreage:** 11.64	**Field Date:** 4-19-95
Location: Nyberg Creek: Martinazzi to I-5		**Tualatin Data Base No:** 38.015-38.019	
Beaverton Quadrangle T2S R1W **Sec.:** 24 **Quarter:** SW		**Map No:** 5021	**Aerial:** 2

General Description: Beaver are active and have dammed the creek in a few places south of Fred Meyers flooding alder trees and have cut down a few black cottonwood trees. Fortunately the trees have fallen in the floodplain and not in the parking lot. The area of beaver impact is too small to map.

Delineation Date and Delineator: 1983, ACOE. 1995, ATEC-wetland boundary flagging observed on-site; orange wire flag; not in Tualatin database yet.

NWI Classification: 50% PEM, 50% PFO

Mapped Soils: 43 Wapato Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Nyberg Creek

Hydrologic Source/Comments: Water channel 20 ft wide; red alder inundated to 12 inches.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
		west
* *Alnus rubra*	* *Rubus discolor*	* *Solanum dulcamara*
* *Populus trichocarpa*	*Salix sitchensis*	* *Phalaris arundinacea*
* *Salix lasiandra*		*Veronica americana*
		Urtica dioica
		Scirpus microcarpus
		Lysichitum americanum
		Veratrum viride
		Stachys cooleyae
		Glyceria sp.
		east
		* *Alopecurus pratensis*

Boundary Information: North of meadow on east end there is no vegetation change but a slight topographic break is evident; soils were sampled for field verification. On the rest of the site there is a distinct topographic break and vegetation changes from reed canarygrass and soft rush to Himalayan blackberry.

Wetland Functions: High wildlife habitat, water quality, hydrologic control and aesthetics.

WETLAND SUMMARY SHEET

UNIT: N	**WETLAND:** W5	**Acreage:** 0.71	**Field Date:** 4-19-95
Location: Nyberg Ck: Boones Ferry to Martinazzi Ave		**Tual. Data Base No:** 38.001-38.015	
Beaverton Quadrangle T2S R1W **Sec.:** 24 **Quarter:** SW		**Map No:** 5021	**Aerial:** 2

General Description: Small pond west of Boones Ferry Road; two foot culvert under Boones Ferry Road. East of Boones Ferry channel is 3 ft wide, 3 ft deep; east of Tonka Rd the stream meanders through a 6 ft wide channel that is 1-2 ft deep; greenway in place. Himalayan blackberry has been sprayed and killed on hillslopes. Channel deepens to 10 ft by footpath. Stream used by mallard and nutria.

Delineation Date and Delineator: 1983 ACOE; 1993, The Resource Company (portion);1995, RZA (portion); 1995, AEE (portion)

NWI Classification: 100% PEMx

Mapped Soils: 43 Wapato Silty clay loam, 30 McBee Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Nyberg Creek

Hydrologic Source/Comments: Collects southwest runoff from developed area to west and south; east of BF: water clear to east; Linear (20 ft wide); seeps from south ; also collects from drain; east of foot bridge & parking lot driveway is wier.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
	Salix scouleriana	* *Phalaris arundinacea* * *Scirpus microcarpus* *Ranunculus repens* *Callitriche* sp. *Solanum dulcamara* *Equisetum* sp. grass

Boundary Information: Distinct topographic break; vegetation changes to ornamentals, grass field, and maintained lawn.

Wetland Functions: High aesthetic value for community; runoff.

WETLAND SUMMARY SHEET

UNIT: N	**WETLAND:** W6	**Acreage:** 0.31	**Field Date:** 4-20-95
Location: Todd Village Apts between Warm Springs & Mohawk St			**Tual.DBNo.** 57.001
Beaverton Quadrangle	T2S R1W **Sec.:** 24 **Quarter:** SW	**Map No:** 5021	**Aerial:** 2

General Description: Dense thickets of blackberry; excessive garbage including over four shopping carts, tires, and yard debris.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 46F Xerochrepts and Haploxerolls

Hydrologic Basin: Tualatin River **Sub-basin:** Nyberg Creek

Hydrologic Source/Comments: Tributary stream; narrow floodplain < 20 feet.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Alnus rubra	*Cornus stolonifera* *Rubus discolor*	*Phalaris arundinacea*

Boundary Information: Distinct topographic break; vegetation changes to Himalayan blackberry, western hazelnut, cherry.

Wetland Functions: Runoff.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: S1	**WETLAND:** W7	**Acreage:** 2.38	**Field Date:** 4-20-95
Location: Saum Creek: Borland Rd & Tualatin River		**Tual. Data Base No:** 43.026-43.044	
Lake O Quad. T2S R1W **Sec.:** 19/20	**Quarter:** SE/SW	**Map No:** 5024, 5025	**Aerial:** 3

General Description: W7 is Saum Creek and its floodplain from Borland Road to its confluence with the Tualatin River. Access was denied on many properties; consequently, observations were made from Borland Road and the north end. The site was mapped based on photointerpretation and topographic overlays. The floodplain is broad in places and well vegetated. Dominant species include red alder, Himalayan blackberry, horsetail, and reed canarygrass. Acreage increases to 4.65 acres including areas inside and outside of the UGB.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 91C Woodburn Silt Loam

Hydrologic Basin: Tualatin River **Sub-basin:** Saum Creek

Hydrologic Source/Comments: Saum Creek, seeps

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Alnus rubra*	* *Rubus discolor*	* *Phalaris arundinacea*
Fraxinus latifolia	*Sambucus racemosa*	* *Equisetum hyemale*
	Salix piperi	*Hydrophyllum tenuipes*
		Urtica dioica
		Athyrium filix-femina

Boundary Information: Distinct topographic break; vegetation changes to big-leaf maple and hazelnut on the hillslopes.

Wetland Functions: High Wildlife Habitat (food resources could be improved with restoration of native vegetation); High Water Quality protection and hydrologic controls (broad floodplain on southern half). High connectivity (Tualatin River); High Aesthetics (large size).

Impacts: Water Quality: Sign at Borland Road states: "Keep out--contaminated with untreated sewage."

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: S1	**WETLAND:** W8	**Acreage:** 1.88	**Field Date:** 4-20-95
Location: Saum Creek: Prosperity Park Rd to Borland Rd.		**Tualatin DBNo:** 43.021-43.026	
Canby Quadrangle T2S R1W **Sec.:** 30 **Quarter:** NE		**Map No:** 5124	**Aerial:** 6

General Description: W8 is Saum Creek and its floodplain between Prosperity Park Road and Borland Road. Saum Creek is braided with numerous channels and wetland pockets of skunk cabbage and lady fern. Acreage increases to 2.63 acres including areas inside and outside of the UGB.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 91C Woodburn Silt loam

Hydrologic Basin: Tualatin River **Sub-basin:** Saum Creek

Hydrologic Source/Comments: Saum Creek, seeps.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
Alnus rubra	*Rubus discolor*	*Athyrium filix-femina*
Fraxinus latifolia	*Sambucus racemosa*	*Lysichitum americanum*
	Salix piperi	*Phalaris arundinacea*
		Equisetum hyemale

Boundary Information: Distinct topographic break; vegetation changes to big leaf maple on hillslopes.

Wetland Functions: High wildlife habitat; high water quality protection potential and hydrologic control (broad floodplain with braided channels receiving residential runoff). High aesthetics (view shed of I-205).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: S2	**WETLAND:** W9	**Acreage:** 13.23	**Field Date:** 4-20-95
Location: Saum Creek: 65th Ave to Prosperity Park Rd			**TDB No:** 43.011-43.021
L O & Canby Quadrangle T2S R1W **Sec.:** 30 **Quarter:** N		**Map No:** 5123, 5124	**Aerial:** 6

General Description: W9 is a reach of Saum Creek located north of I-205 between 65th and Prosperity Park Road. Access was denied on most of this site. This site description is based on observations made at 65th Avenue and at Prosperity Park Road, and from the Lee's farm subdivision wetland delineation by the Resource Company. Vegetation is dominated by red alder, red willow, Oregon ash, horsetail, reed canarygrass, bentgrass, and slough sedge. There's a well developed canopy (F5) north of W9 in most of this reach. The south end is open and adjacent to I-205.

Delineation Date and Delineator: 1994; The Resource Company (portion).

NWI Classification: 25% PEMx, 75% PFO

Mapped Soils: 84 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Saum Creek

Hydrologic Source/Comments: Saum Creek; braided channel in floodplain adjacent to Prosperity Park Road.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
* *Alnus rubra*	*Acer circinatum*	* *Phalaris arundinacea*
* *Fraxinus latifolia*	*Rosa* species	* *Equisetum hyemale*
* *Salix lasiandra*	*Rubus discolor*	* *Carex obnupta*
	Rubus laciniatus	* *Agrostis* species
		Hydrophyllum tenuipes
		Lysichitum americanum
		Athyrium filix-femina
		Urtica dioica
		Ranunculus repens

Boundary Information: Typically, there is a distinct topographic break; vegetation changes to Douglas fir, big leaf maple, snowberry, Himalayan blackberry, and orchard grass.

Wetland Functions: W9 is an aesthetic view from I-205. The forested wetland also helps buffer freeway noise for residents to the north. The broad floodplain helps protect water quality and maintain hydrologic control.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: S3	**WETLAND:** W10	**Acreage:** 14.59	**Field Date:** 4-20-95
Location: Saum Creek: I-5 to 65th Ave		**Tualatin Data Base No:** 43.007-43.011	
Canby Quadrangle T2S R1W **Sec.:** 25 **Quarter:** NE		**Map No:** 5122	**Aerial:** 6

General Description: W10 is Saum Ck between I-5 and 65th Ave. It is located south of a residential neighborhood and at the south end of Atfalati Park. Most of the floodplain is forested with Sitka willow, red willow, and red alder. Open areas are dominated by reed canarygrass with clumps of spirea. Saum Ck meanders through the floodplain and through many shallow ponds. A paved loop trail circles the edge of the park and connects to a couple of overlooks of the wetlands. Interpretive signs provide information about the wetlands. There is also access to the wetlands via the neighborhood. Forts that have been constructed by residents are deteriorating and lumber is floating in the pondings beneath the canopy. A variety of waterfowl and riparian species have been observed in the wetland including mallard, beaver, song sparrow, redwing blackbird, and bullfrog.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 15% POWh, 20% PEMh, 65% PFO

Mapped Soils: 43 Wapato Silty clay loam, 37C Quatama SiL

Hydrologic Basin: Tualatin River **Sub-basin:** Saum Creek

Hydrologic Source/Comments: Saum Creek.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Alnus rubra*	*Spiraea douglasii*	* *Phalaris arundinacea*
* *Salix sitchensis*		*Lysichitum americanum*
* *Salix lasiandra*		*Ranunculus repens*
		Scirpus microcarpus
		Veronica americana
		Alopecurus geniculatus

Boundary Information: Topographic break; vegetation changes to Douglas fir and HImalayan blackberry.

Wetland Functions: Broad floodplain provides high water quality protection and hydrological control. Its location by I-205 reduces wildlife habitat values but they are still medium-high due to the large size of the resource and the interspersion of wetland types. The trees help buffer freeway noise for residences to the north. The wetland is also an aesthetic view from I-205. High recreation and potential education.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: S	**WETLAND:** WQ	**Acreage:**	**Field Date:** 4-5-95
Location: Northeast of Piute Ct/Martinazzi Ave			**Tualatin Data Base No:** NA
Sherwood Quadrangle	T2S R1W **Sec.:** 25	**Quarter:** SW	**Map No:** 5121, 5221 **Aerial:** 5

General Description: Two mallard present; site surrounded by 6 ft cyclone fence. This depression was disturbed by placement of spoil material during the construction of Martinazzi Village apartments to the north. It provides limited wetland functions.

Delineation Date and Delineator: No known previous delineation.

NWI Classification: 50% PEM, 50% PSS

Mapped Soils: 21B Hillsboro Loam

Hydrologic Basin: Tualatin River **Sub-basin:** Saum Creek

Hydrologic Source/Comments: Rain; runoff.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
	Salix sp.	*Phalaris arundinacea* *Juncus effusus*

Boundary Information: Topographic break, vegetation changes from Reed canarygrass to other grasses.

Wetland Functions: Limited.

WETLAND SUMMARY SHEET

UNIT: S4 **WETLAND:** W11 **Acreage:** 0.49 **Field Date:** 4-4-95

Location: Northeast of Blake St/Martinazzi to I-5 **Tualatin Data Base No:** 43.002-43.005

Sherwood Quad T2S R1W **Sec.:** 25, 26 **Quarter:** SE/SW **Map No:** 5220, 5221 **Aerial:** 5

General Description: W11, Dakota Creek, is a short tributary to Saum Creek. The upper end of the drainage has been filled and culverted for residential and greenway development. The remainder of this reach is surrounded by residential development and I-5. Floodplain vegetation is dominated by red alder, water parsley, and reed canarygrass.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 22 Huberly Silt loam

Hydrologic Basin: Tualatin River **Sub-basin:** Saum Creek

Hydrologic Source/Comments: Streamcorridor: Saum Creek; culverted two times north of Dakota; narrow floodplain < 30 feet.

Dominant Vegetation: (* = major dominant)

Trees	Herbs/Emergents
* *Alnus rubra*	* *Oenanthe sarmentosa*
	* *Athyrium filix-femina*
	Phalaris arundinacea
	50% bare soil

Boundary Information: Distinct topographic break; narrow stream corridor with width of wetland floodplain 5 ft to 30 ft.

Wetland Functions: Medium water quality and wildlife habitat.

WETLAND SUMMARY SHEET

UNIT: T1	**WETLAND:** W12	**Acreage:** 0.24	**Field Date:** 4-19-95
Location: Northeast of the end of Nyberg Lane		**Tualatin Data Base No:** 41.001	
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19 **Quarter:** NE	**Map No:** 4924	**Aerial:** 3

General Description: W12 is a small spring that's been excavated into a pond with an outlet to the Tualatin River. Vegetation on the pond margins is dominated by Oregon ash, red alder, willow, lady fern, skunk cabbage, horsetail, and Himalayan blackberry. The pond has an aeration fountain that bubbles water continuously.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 90% POWx, 10% PFO

Mapped Soils: 56 McBee Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** N/A

Hydrologic Source/Comments: Pond with bubbler fountain; appears to be excavated in wetland. Overflow pipe to Tualatin River; narrow drainage 1 ft wide.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
Alnus rubra	*Rubus discolor*	*Athyrium filix-femina*
Fraxinus latifolia	*Salix* species	*Lysichitum americanum*
		Equisetum hyemale

Boundary Information: Vegetation changes to Himalayan blackberry.

Wetland Functions: Aesthetics for owner, water for wildlife.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T1	**WETLAND:** W13	**Acreage:** 1.14	**Field Date:** 4-19-95
Location: North of Nyberg Ln		**Tualatin Data Base No:** 40.001-40.003	
Lake Oswego Quad. T2S R1W **Sec.:** 19	**Quarter:** N	**Map No:** 4923, 4924	**Aerial:** 3

General Description: W13 is located on the east end of Brown's Ferry Park. It lies parallel and below ordinary highwater (OHW) of the Tualatin River. It is a diverse forested wetland that contains seasonal surface ponding and an outlet to the Tualatin River. Canopy vegetation is dominated by Oregon ash and red alder with a diverse native understory including red-osier, ninebark, skunk cabbage, slough sedge, and lady fern. It is unique because of its location adjacent to the river and its high ecological integrity.

Delineation Date and Delineator: 1983, ACOE

NWI Classification: 100% PFO

Mapped Soils: 56 McBee Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** N/A

Hydrologic Source/Comments: Seeps from three directions; drains to Tualatin River.

Dominant Vegetation: (* = major dominant)

Riparian Trees	Riparian Shrubs	Riparian Herbs
* *Alnus rubra*	* *Cornus stolonifera*	* *Carex obnupta*
* *Fraxinus latifolia*	*Physocarpus capitatus*	* *Lysichitum americanum*
		Athyrium filix-femina
		Maianthemum dilatatum
		Veratrum

Boundary Information: Slight topographic break; vegetation changes to big-leaf maple.

Wetland Functions: High Wildlife Habitat (connected to the Tualatin River), Ecological Integrity (native species richness). Exceptional area, diverse wetland/upland species. High Educational potential due to ecological integrity but should not be used for recreation since that would impact its quality.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T1	**WETLAND:** W14	**Acreage:** 2.09	**Field Date:** 4-19-95
Location: NW of Nyberg Ln/57th Avenue		**Tualatin Data Base No:** 39.001-39.004	
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19 **Quarter:** NW	**Map No:** 4923	**Aerial:** 3

General Description: Most of W14 is located in Brown's Ferry Park, an undeveloped City Park. The southern end, south of Nyberg Ln, is Emmon's Pond. Dominant vegetation includes soft rush and meadow foxtail but a variety of other emergents are also present and a few trees occur on the southern pond margins. Trees also line the outlet channel to the Tualatin River. W14 provides winter waterfowl habitat, shorebird habitat, amphibian breeding opportunities, and year round water.

Delineation Date and Delineator: 1983, ACOE; 1987, FES (portion); 1995, FES (portion)

NWI Classification: 40% POW, 20% POWh (south of Nyberg Ln), 40% PEM

Mapped Soils: 25 Cove Silty Clay Loam, 56 McBee Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** N/A

Hydrologic Source/Comments: Spring; outflows to the Tualatin River.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia	*Sambucus racemosa*	* *Juncus effusus*
Salix species	*Acer circinatum*	* *Alopecurus pratensis*
	Cornus stolonifera	*Veronica americana*
		Scirpus microcarpus
		Carex obnupta
		Typha latifolia
		Ranunculus repens
		Glyceria species

Boundary Information: Gradual slope; vegetation changes to tall fescue, common dandelion, white clover.

Wetland Functions: High wildlife habitat connected to the Tualatin River, recreation and educational potential (Brown's Ferry Park and close to Bridgeport School), aesthetics. Medium water quality protection (of a limited drainage).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T2	**WETLAND:** W15 & W15a	**Acreage:** 1.81	**Field Date:** 4-24-95
Location: West of Forest Rim Apts.		**Tualatin Data Base No:** 36.001-36.003, 37.001	
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19	**Quarter:** NW	**Map No:** 4923 **Aerial:** 3

General Description: W15 is located northeast of the Sweetbrier Inn. This 1.29 acre forested pond goes dry in late summer during drought conditions. In the winter it holds approximately 2 ft of standing water. The depression area is poorly drained with a layer of organic material overlaying a lens of clay. The surrounding area drains to the pond although recent development north, east, and west of the pond may impact the volume of water. The wetland provides nesting habitat for wood ducks and hooded mergansers and a variety of smaller wildlife species. The forest northwest of the pond provides important habitat linkage of the site to the Tualatin River. W15A is a 0.52 acre quarry pond located east of W15. It is surrounded by apartments and a swimming pool. It provides an aesthetic view for the development and habitat for a pair of nesting mallards. Vegetation around the quarry pond is sparse and includes black cottonwood and meadow foxtail.

Delineation Date and Delineator: 1992, FES; 1994, SRI/Shapiro

NWI Classification: 40% POW, 30% POWx, 20% PFO

Mapped Soils: 25 Cove Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** N/A

Hydrologic Source/Comments: Surface and groundwater; perched water table.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Fraxinus latifolia*	*Physocarpus capitatus*	* *Eleocharis palustris* *Eleocharis acicularis*

Boundary Information: Topographic break (fill to the north and east); vegetation changes from Oregon ash to Himalayan blackberry, ornamental hawthorn, Douglas fir, shining crane's-bill, Himalayan blackberry, and moss.

Wetland Functions: High wildlife habitat (wood ducks, hooded merganser and tree frog); high aesthetics.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T2	**WETLAND:** W16	**Acreage:** 1.99	**Field Date:** 4-24-95
Location: East of I-5; north of Sweetbrier Inn		**Tualatin Data Base No:** 35.001	
Lake Oswego Quadrangle	T2S R1W **Sec.:** 24 **Quarter:** NE	**Map No:** 4922	**Aerial:** 3

General Description: W16 is a seasonal pond located southeast of I-5 and the Tualatin River. It consists of a mix of scrub shrub, emergent, and open water wetlands. Dominant vegetation includes red willow, Piper's willow, and creeping spikerush. The wetland is contiguous with F16 which is adjacent to the Tualatin River. Even though it's by the I-5 freeway, it provides high wildlife habitat as an amphibian breeding pond of chorus frogs and winter waterfowl habitat. Deer, raccoon, garter snakes were also observed. The wetland is in the viewshed of I-5.

Delineation Date and Delineator: 1991, FES

NWI Classification: 10% POW, 45% PEM, 45% PSS

Mapped Soils: 27 Labish mucky clay. → jurisdictional

Hydrologic Basin: Tualatin River **Sub-basin:** N/A

Hydrologic Source/Comments: Seep, perched surface water. pumped H_2O to support fish

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
* *Salix lasiandra*	* *Salix piperi*	* *Eleocharis palustris* *Phalaris arundinacea* *Ranunculus repens* *Polygonum* species

Boundary Information: Slight topographic break; vegetation changes to upland grasses, Douglas fir, and red hawthorn.

Wetland Functions: High wildlife habitat (amphibian breeding, water fowl, raccoon, deer); high aesthetics (viewed from freeway).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T5	**WETLAND:** W17	**Acreage:** 3.37	**Field Date:** 5-16-95
Location: Between T. Country Club and Tualatin Community Park			**TDB No:** 34.001-34.004
Beaverton Quadrangle	T2S R1W **Sec.:** 14	**Quarter:** SE	**Map No:** 4820 **Aerial:** 2

General Description: W17 is a large emergent marsh located in a depression area in the Tualatin River floodplain between Tualatin Community Park and the Tualatin Country Club. Micro-habitats are somewhat diverse and attract a variety of wildlife species including great blue heron, sora rail, wood ducks, teal, and red-winged blackbirds. A couple of pygmy goats graze the wetland in the summer. ODFW noted the goats favored reed canarygrass over slough sedge and soft rush for forage and are experimenting with using them to control the canarygrass.

Delineation Date and Delineator: No known previous delineation

NWI Classification: .10% POW, 90% PEM

Mapped Soils: 43 Wapato Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** N/A

Hydrologic Source/Comments: Depressional area; perched water table.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia		* *Eleocharis palustris* * *Phalaris arundinacea* * *Carex obnupta* *Juncus effusus* *Glyceria* species

Boundary Information: Distinct topographic break; vegetation changes from reed canarygrass, slough sedge, and Oregon ash to grazed pasture grasses.

Wetland Functions: High wildlife habitat (variety of food and cover resources), aesthetics (large size, well cared for).

Comments: Killdeer, sora rail, wood duck mallard, great blue heron, red-winged blackbird, teal, violet green swallow, tree swallow, tree frogs, housefinch, and mourning dove were observed during a brief rainy visit.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T5	**WETLAND:** W18 & W18a	**Acreage:** 2.06 (inc. 0.88 mosaic)	**Field Date:** 4-20-95
Location: Tualatin Country Club		**Tualatin Data Base No:** 39.000, 30.001, 31.001,32.001	
Beaverton Quadrangle	T2S R1W **Sec.:** 14 **Quarter:** SE		**Map No:** 4820 **Aerial:** 2

General Description: W18 is located on the Tualatin River north of the Tualatin Country Club. The riparian vegetation is a narrow band of trees typically 25 ft wide. In many places the top of hillslope is the same as the top of bank (or edge of water) because slopes are nearly vertical. Canopy vegetation is dominated by Oregon ash, red alder, and Douglas fir. The understory is dominated by Himalayan blackberry and snowberry with pockets of water leaf, fringecup, bittersweet nightshade, and English ivy. A wetland occurs northeast of a water hazard where the Tualatin River flows over its banks. Vegetation in this depression was not present due to the time of year; vegetation on the riverbank in this area was dominated by Oregon ash and creek dogwood. The broad forest area north of the wetland is dominated by Oregon ash. The understory has been cleared and is used for dumping yard debris from the golf course. These large piles of debris degrade water quality and the soil disturbance has promoted the invasion of Himalayan blackberry and bittersweet nightshade. The golf course has two excavated ponds W18a (0.96 acre); no emergent vegetation was observed in either pond.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 50% PFO, 50% POWx

Mapped Soils: 37 Quatama loam

Hydrologic Basin: Tualatin River

Hydrologic Source/Comments: Tualatin River floodplain.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
* *Fraxinus latifolia*	* *Cornus stolonifera*	* *Solanum dulcamara*
		Urtica dioica

Boundary Information: Distinct topographic break surrounding water hazard ponds. Vegetation changes to black cottonwood, Douglas fir, and mowed grasses.

Wetland Functions: High wildlife habitat (connected to Tualatin River), aesthetics (adjacent to river) and connectivity. Medium water quality function (shoreline vegetation helps collect nutrients and seidments).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T6	**WETLAND:** W19	**Acreage:** 6.70	**Field Date:** 5-29-95
Location: Northeast of Cheyenne Way		**TDBNo:** 27.001-27.002, 28.001-28.002	
Beaverton Quadrangle	T2S R1W **Sec.:** 14 **Quarter:** SW	**Map No:** 4819	**Aerial:** 2

General Description: W19 is located in the Tualatin River Floodplain. It is owned and managed by the Wetlands Conservancy. Trails and an observation blind have been constructed for recreation and wildlife observation. Wildlife habitat has been enhanced by excavation and plantings of native tree and shrub species. Nest boxes have also been installed. W19 attracts a variety of winter waterfowl, nesting mallard, and wood duck, swallows, red-winged blackbird, yellowthroat, song sparrow, raccoon, and tree frogs.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 15% POWx, 50% PEM, 35% PFO

Mapped Soils: 43 Wapato silty clay loam, 30 McBee Silty Clay Loam

Hydrologic Basin: Tualatin River floodplain

Hydrologic Source/Comments: Seep; residential runoff.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Populus trichocarpa [*balsamifera*]	* *Spiraea douglasii*	* *Phalaris arundinacea*
Salix lasiandra	*Rosa* species	*Carex deweyana*
Fraxinus latifolia	*Crataegus douglasii*	*Eleocharis palustris*
	Cornus stolonifera	*Alopecurus pratensis*
	Salix piperi	*Alopecurus geniculatus*
		Eleocharis species
		Lolium perenne
		Juncus tenuis
		Epilobium watsonii [*ciliatum*]
		Veronica peregrina
		Juncus bufonius
		Poa annua

Boundary Information: Distinct topographic break; vegetation changes to red hawthorn, clover, fruit trees, Scot's broom.

Wetland Functions: High wildlife habitat, neighborhood aesthetic, education (Scouts and community) and passive recreation. Wetlands Conservancy has enhanced habitat, created educational brochures and developed trails for the community.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T6 **WETLAND:** W20 **Acreage:** 10.25 (inc. 4.7 mosaic) **Field Date:** 5-10-95

Location: East of Jurgens Lane **Tualatin Data Base No:** 26.001-26.008

Beaverton Quadrangle T2S R1W **Sec.:** 14 **Quarter:** SW **Map No:** 4819 **Aerial:** 2

General Description: W20 is a broad depression area in the Tualatin River floodplain. Its a mosaic of uplands and wetlands on the east end which could be the result of collapsed drainage tile. On the west end, wetlands are more uniform and in the southwest corner a small stock pond was recently excavated (1994?). The west end is also grazed by horses. Dominant vegetation includes reed canarygrass, slough sedge and meadow foxtail with scattered clumps of red hawthorn in disturbed transitional areas.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PEM

Mapped Soils: 13 Cascade Silt loam

Hydrologic Basin: Tualatin River

Hydrologic Source/Comments: Tualatin River floodplain, seep.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Populus trichocarpa [*balsamifera*] (seedlings)		* *Alopecurus pratensis* * *Phalaris arundinacea* * *Carex obnupta* *Carex* species *Juncus tenuis* *Leontodon nudicaulis* *Juncus patens*

Boundary Information: Slight Topographic break; vegetation changes to sweet vernal grass, Queen Anne's lace, purple clover, and red hawthorn.

Wetland Functions: Seasonal water for wildlife; aesthetic of neighborhood.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T6 **WETLAND:** W21 **Acreage:** 12.66 (incl. 5.71mosaic) **Field Date:** 5-10-95

Location: North of Hazelbrook Road **Tualatin Data Base No:** 25.001- 25.025

Beaverton Quad. T2S R1W **Sec.:**14/15 **Quarter:**SW/SE **Map No:** 4818, 4819 **Aerial:** 1

General Description: W21 is located at the toe of the slope north of Hazelbrook Road in the Tualatin River floodplain. Portions of W21 have been disturbed by agricultural practices (historic hydrologic alterations due to tiling, active horse and cattle grazing). It includes a large wetland/ upland mosaic. Two relic native plant communities are also present. A small wetland prairie is located east of the gravel road (108th) that leads to F19 and a forested wetland located south of F19 (west of 108th). Two gravel roads cross the wetlands for residential access.

Delineation Date and Delineator: 1991, SRI (Jurgens Park portion)

NWI Classification: 50% PEM, 50% PFO

Mapped Soils: 13 Cove silty clay loam

Hydrologic Basin: Tualatin River

Hydrologic Source/Comments: Seep.

Dominant Vegetation: (* = major dominant)

Trees
* *Fraxinus latifolia*
Thuja plicata
Populus trichocarpa [*balsamifera*]
Populus tremuloides

Shrubs
Spiraea douglasii
Cornus stolonifera
Rhamnus purshiana
Physocarpus capitatus
Salix piperi
Rosa species
Crataegus monogyna

Herbs/Emergents
forest:
* *Carex obnupta, Camassia quamash, Geum macrophyllum, Oenanthe sarmentosa*
open:
Glyceria species, *Ranunculus repens, Juncus tenuis, Alopecurus pratensis, Carex unilateralis, Deschampsia cespitosa, Carex obnupta, Montia linearis, Alopecurus geniculatus, Plagiobothrys figuratus*

Boundary Information: Distinct topographic break on southern boundary. Slight topographic break to the north. Vegetation changes to fringecup, sweet vernal grass, red hawthorn, Douglas fir, and sword fern, grazed grasses.

Wetland Functions: High ecologic integrity and uniqueness in portions (see map); high wildlife habitat (large size and diverse vegetation); high potential recreation and education (Hazelbrook/Jurgens Rd. Park Site); forested wetland west of 108th and small relic wet prairie east of 108th have high ecologic integrity.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H1	**WETLAND:** W22	**Acreage:** 1.52	**Field Date:** 4-14-95
Location: Hedges Creek: Tualatin Rd to Tualatin River			**TDB No:** 49.001-49.015
Beaverton Quadrangle	T2S R1W **Sec.:** 24 **Quarter:** NW		**Map No:** 4921 **Aerial:** 5

General Description: W22 represents lower Hedges Creek between Tualatin Rd and the confluence of Hedges Ck and the Tualatin River. The stream meanders through a natural channel and also has been channelized in places. Vegetation is dominated by Oregon ash, red alder, Himalayan blackberry, reed canarygrass, and bittersweet nightshade and includes ninebark, rose, spirea, creek dogwood, Piper's willow, spikerush, and creeping buttercup. The wetland boundary is distinct and identified by a topographic break and where vegetation changes from reed canarygrass and Oregon ash to Himalayan blackberry. A paved path is located on the north side of the creek inside Tualatin Community Park and is regularly used by pedestrians, bicyclists, and strollers. The east end of the stream meanders through residential property. The floodplain is approximately 20 ft wide which benefits water quality by filtering and absorbing pollutants.

Delineation Date and Delineator: 1993, SRI (portion)

NWI Classification: 100% PFO
Mapped Soils: 13 Cove silty clay loam, 30 McBee silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek
Hydrologic Source/Comments: Hedges Creek + floodplain 15 - 20 ft wide (25 ft max); narrow meandering stream and floodplain; channelized on west end.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Fraxinus latifolia*	*Spiraea douglasii*	* *Phalaris arundinacea*
* *Alnus rubra*	*Rosa* species	* *Solanum dulcamara*
* *Salix lasiandra*	* *Rubus discolor* (slope)	*Ranunculus repens*
	Physocarpus capitatus	*Eleocharis palustris*
	Cornus stolonifera	
	Salix piperi	
	Corylus cornuta	
	Acer circinatum	

Boundary Information: Topographic break; vegetation changes from Oregon ash, reed canarygrass, and bittersweet nightshade to Himalayan blackberry, white cottonwood, red hawthorn, and western hazelnut.

Wetland Functions: High Stormwater runoff, Wildlife Habitat, Recreation, (paved path within park for pedestrians and bicycles) and Educational Potential (within Tualatin Community Park).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H2 **WETLAND:** W23 **Acreage:** 61.21 (inc. 5.74 mosaic) **Field Date:** 4-07-95

Location: Hedges Creek: Pascuzzi Pond to Boones Ferry **Tual. DB No:** 1.001-1.046

Beaverton Quad. T2S R1W **Sec.:** 22/23 **Map No:** 4918-4920; 5018-5020 **Aerial:** 1 & 2

General Description: W23 is located within the Wetland Protection Area (WPA) of the Tualatin Wetland Protection District and includes approximately 61.21 acres of wetlands. In a delineation conducted in 1978 by the ACOE, the initial boundaries were established which were modified after negotiating with land owners. New boundaries were established protecting most of the wetlands and allowing fill of others. Many wetlands within the district but outside the WPA have already been filled; many remain contiguous to the WPA (≈5.43 acres). W23a (≈9 acres) represents compaction depressions in fill. W23b (≈0.35 acre) is a forested wetland. Although the broad floodplain helps control flooding, flooding remains a problem and occurs annually at Teton Ave. and a portion of Herman Road within this reach. ODFW created ponds with islands near the southeast corner. These ponds go dry in drought years; in the spring water is ≈ 2 ft in depth. Adjacent forest habitat (F21, F22, F23) occurs in a few places which contributes additional food and cover resources for wildlife (i.e. Mallards nest in F23 and use Pascuzzi Pond and Hedges Creek for foraging). Noteworthy wildlife species observed in 1995 include nesting Canada goose and wood ducks, green-backed heron, great blue heron, snipe, long-billed marsh wren, sora rail, egret, river otter, and deer.

Delineation Date and Delineator: 1978, ACOE
NWI Classification: 55% PEM, 34% POWx, 1% POWb, 10% PFO

Mapped Soils: 13 Cascade silt loam, 14 Cove clay, 43 Wapato silty clay loam
Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek
Hydrologic Source/Comments: Hedges Creek; floodplain

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Fraxinus latifolia*	* *Spiraea douglasii*	* *Phalaris arundinacea*
	* *Salix piperi*	pockets of: *Carex sp*,
	* *Cornus stolonifera*	*Scirpus microcarpus*, *Typha*
	Physocarpus capitatus	*latifolia*, Juncus effusus,
	Rosa pisocarpa	*Alopecurus geniculatus*,
	Rosa nutkana	and *Eleocharis palustris*

Boundary Information: Topographical break generally due to permitted fill. Vegetation changes from reed canarygrass or Oregon ash and piper's willow to upland grasses, Douglas fir, Oregon white oak, and Himalayan blackberry and red hawthorn.

Wetland Functions: The large size of the wetlands and their location in the Hedges Creek floodplain provide high values for wildlife habitat, hydrologic control and water quality protection. Trails exist at Pascuzzi Pond (in the NW corner) and on the east end and are maintained by The Wetlands Conservancy offering high recreational and educational values. High aesthetics (large size, limited garbage).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H2	**WETLAND:** W23a & 23b	**Acreage:** 14.78	**Field Date:** 4-17-95
Location: Wetlands Prot. Dst. outside Wet Protected Area		**TDB No:** 1.004,1.010,1.013, 1.046	
Beaverton Quadrangle T2S R1W **Sec.:** 23 **Quarter:** NE		**Map No:** 4920 **Aerial:** 1,5	

General Description: W23a includes many wetland depressions located outside of the Wetland Protected Area but within the Wetland Protection District. Most of these wetlands appear to be compaction depressions in fill areas or excavated areas (9 acres). Others are contiguous with W23 but are not located within the Wetlands Protected Area (5.43 acres). W23b is a small forested wetland (0.35 acre).

Delineation Date and Delineator: No known recent delineation
NWI Classification: 95% PEM, 5% PFO

Mapped Soils: 14 Cove clay

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: precipitation collected in depression areas

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia		*Carex obnupta* *Juncus patens* *Phalaris arundinacea* *Typha latifolia* *Carex species* *Plagiobothrys figuratus* *Alopecurus geniculatus*

Boundary Information: Determine&d by topographic breaks and where vegetation changes to upland grasses (orchard grass, sweet vernal grass), Queen Anne's lace, and/or Douglas fir.

Wetland Functions: wildlife habitat, hydrologic control, water quality protection

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H5	**WETLAND:** W24	**Acreage:** 1.57	**Field Date:** 4-24-95
Location: Hedges Cr.: Tual-Sher. Rd to Industrial Way			**Tual. Data Base No:** 6.008
Sherwood Quadrangle T2S R1W **Sec.:** 27 **Quarter:** NE			**Map No:** 5118 **Aerial:** 4

General Description: W24 is Hedges Creek south of Tualatin-Sherwood Road to W25. The creek meanders sharply on the north end and the banks have been armored with rock rip-rap in places. Vegetation is dominated by Oregon ash, red alder, and nightshade. The floodplain on the southern half broadens to about 180 ft and vegetation is dominated by reed canarygrass. Hillslopes are steep and support Douglas fir and Himalayan blackberry. To the east they are contiguous to a larger woodland.

Delineation Date and Delineator: 1995, Adolfson

NWI Classification: 50% PFO, 50% PEM

Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Hedges Creek floodplain

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Alnus rubra*	*Spiraea douglasii*	* *Phalaris arundinacea*
* *Fraxinus latifolia*	*Physocarpus capitatus*	* *Solanum dulcamara*
Thuja plicata	*Cornus stolonifera*	*Urtica dioica*
	Salix species	*Veronica americana*
	Rubus discolor	*Ranunculus repens*
		Glyceria grandis [*maxima*]

Boundary Information: Distinct topographic break at the toe of hillslopes; vegetation changes to Himalayan blackberry, Douglas fir, red elderberry, and erosion control grasses.

Wetland Functions: High wildlife habitat due to extensive upland forest adjacent to creek and floodplain, fish habitat, water quality (broad floodplain), hydrologic control, aesthetic for industrial area.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H	**WETLAND:** W25	**Acreage:** 5.37	**Field Date:** 4-26-95
Location: South of Industrial Way/Hedges Creek		**Tualatin Data Base No:** 6.009-6.011	
Sherwood Quadrangle T2S R1W **Sec.:** 27 **Quarter:** NE		**Map No:** 5118, 5218 **Aerial:** 4	

General Description: W25 is a pond created by damming Hedges Creek. It is surrounded by industrial development and a mowed lawn, picnic area, and boat launch. It is not open for public use. Dominant emergent vegetation fringing the pond includes reed canarygrass and soft rush.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 60% POWh, 40% PEM

Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Hedges Creek flows into N1, more water at N. Keeps going under railroad tracks to northwest, appears deeper; dammed stream to make pond.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
		* *Phalaris arundinacea* * *Juncus effusus* *Nuphar polysepalum [luteum]* *Typha latifolia* *Lysichitum americanum*

Boundary Information: Twenty foot sides, steep, Himalayan blackberry, partly mowed at north end of pond.

Wetland Functions: Keep Out - No Trespassing sign; has boat facility. Surrounded by Industrial development.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H6	**WETLAND:** W26	**Acreage:** 1.01	**Field Date:** 4-26-95
Location: Northwest of 108th/Blake St			**Tualatin Data Base No:** 6.012-6.013
Sherwood Quadrangle T2S R1W **Sec.:** 26/27 **Quarter:** SW/SE			**Map No:** 5218, 5219 **Aerial:** 5

General Description: W26 is a reach of Hedges Creek between W25 and 108th. It is surrounded by residential and industrial development. Floodplain vegetation is dominated by reed canarygrass and small-fruited bulrush and large pockets of dense Himalayan blackberry.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: stream floodplain; Hedges Creek

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia		*Phalaris arundinacea*
Alnus rubra		*Scirpus microcarpus*
Acer circinatum		*Ranunculus repens*
* *Salix lasiandra*		*Athyrium filix-femina*
		Lysitichum americanum
		Equisetum species

Boundary Information: distinct topographic break; vegetation changes to Himalayan blackberry, Douglas fir, and big leaf maple.

Wetland Functions: Water quality, hydrologic control, and wildlife habitat.

WETLAND SUMMARY SHEET

UNIT: H7	**WETLAND:** W27	**Acreage:** 2.40	**Field Date:** 4-12-95
Location: Hedges Creek East of 105th (Ibach Park)		**Tualatin Data Base No:** 6.013-6.020	
Sherwood Quad. T2S R1W **Sec.:** 26/27 **Quarter:** SW/SE		**Map No:** 5218, 5219	**Aerial:**5

General Description: W27 is a reach of Hedges Creek that is mostly located in Ibach Park. The floodplain has been disturbed due to sewerline installation and vegetation is dominated by red alder and Himalayan blackberry with skunk cabbage, speedwell, water foxtail, creeping buttercup, and ladyfern in the understory. The alder canopy shades the water and provides nesting and foraging resources for wildlife.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 43 Wapato silty clay loam (disturbed by sewerline)

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Hedges Creek floodplain ≈ 50 ft wide; broadens where runoff and/or tributaries enter main stem.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
* *Alnus rubra*	* *Rubus discolor*	*Hydrophyllum tenuipes*
	Physocarpus capitatus	*Lysichitum americanum*
		Veronica americana
		Alopecurus geniculatus
		Ranunculus repens
		Athyrium filix-femina

Boundary Information: Distinct topographic break. Vegetation changes from red alder, skunk cabbage, ladyfern etc. to big leaf maple, red elderberry, sword fern, fringecup, and ivy.

Wetland Functions: High wildlife habitat, hydrologic control, and water quality.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H	**WETLAND:** W28	**Acreage:** 0.77	**Field Date:** 4-12-95
Location: Between Ibach Park and Taylors/Ibach St..		**Tualatin Data Base No:** 6.018, 6.021	
Sherwood Quadrangle T2S R1W **Sec.:** 27 **Quarter:** SE		**Map No:** 5219	**Aerial:** 5

General Description: The stream corridor is approximately 25-50 ft. wide and has been impacted by sewerline/greenway easements and is surrounded by residential development. The stream channel averages 5 ft across. The canopy is dominated by red alder and includes willow, cottonwood and two alder snags. The shrub understory is dominated by pockets of Himalayan blackberry. Emergent vegetation along the stream is diverse and includes bulrush, speedwell, meadow foxtail, skunk cabbage, bittersweet nightshade, water parsley, cattail, horsetail, and reed canarygrass.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO
Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek
Hydrologic Source/Comments: Stream corridor; Hedges Creek.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Alnus rubra*	* *Rubus discolor*	* *Lysichitum americanum*
Populus trichocarpa [*balsamifera*]	*Sambucus racemosa*	*Phalaris arundinacea*
Salix lasiandra	*Crataegus monogyna*	*Typha latifolia*
	Rose sp	*Ranunculus repens*
		Equisetum sp.
		Solanum dulcamara
		Alopecurus pratensis
		Oenanthe sarmentosa
		Scirpus microcarpus
		Veronica americana
		Athyrium filix-femina

Boundary Information: Distinct topographic break north and east of channel. Vegetation changes to red hawthorn and ornamentals, and soil changes to fill.

Impacts: bikes have compacted soils.

Wetland Functions: Surface water runoff; Fish Habitat: lamprey in channel; Recreation

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H8	**WETLAND:** W29	**Acreage:** 0.32	**Field Date:** 4-12-95
Location: Hedges Creek north of Taylors/Ibach St..		**Tualatin Data Base No:** 6.021-6.025	
Sherwood Quadrangle	T2S R1W **Sec.:** 26 **Quarter:** SW	**Map No:** 5219	**Aerial:** 5

General Description: This stream corridor is bordered by residences to the north and Ibach St. to the south. The channel averages 5 ft wide and meanders through a floodplain that ranges from 15-20 ft wide. Wetlands are limited to the channel margins where scattered clumps of ladyfern, water parsley and/or American speedwell occur. Hillslope vegetation is dominated by mature Douglas fir (4 ft dbh), Pacific dogwood, Indian plum, vine maple, sword fern, miner's lettuce, and fringecup. A variety of other species are also present. English ivy and Himalayan blackberry are present and should be controlled to prevent their spread.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO, limited fringe wetlands

Mapped Soils: 43 Cove silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Stream corridor; Hedges Creek.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs*	Herbs
	**Acer circinatum*	*Athyrium filix-femina*
	**Physocarpus capitatus*	*Oenanthe sarmentosa*
		Veronica americana

Boundary Information: Distinct topographic break

Impacts: The west end of the channel shows severe downcutting. Rock dams have been placed upstream in the streambed to curtail additional erosion. The understory on hillslopes is limited in places due to pedestrian trampling.

Wetland Functions: Surface water runoff; hydrologic control

WETLAND SUMMARY SHEET

UNIT: SD **WETLAND:** W30	**Acreage:** 0.03	**Field Date:** 5-10-95
Location: Between Grahams Ferry Rd & Boones Ferry Rd		**TDB No:** 46.001
Sherwood Quadrangle T2S R1W **Sec.:** 35 **Quarter:** NW		**Map No:** 5319 **Aerial:** 5

General Description: W30 is a small isolated forested depression. Water collects on the surface of basalt; forested rock slopes surround it. Victoria Woods residential development is currently being built around it. The seasonal ponding provides potential amphibian breeding habitat.

Delineation Date and Delineator: 1993, SRI/Shapiro

NWI Classification: 100% PFO

Mapped Soils: 43 Wapato silty clay loam; 38C Saum silt loam

Hydrologic Basin: Willamette River **Sub-basin:** Seely Ditch

Hydrologic Source/Comments: Precipitation, surface water runoff to depressional area perched above basalt layer.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Alnus rubra	*Physocarpus capitatus*	*Carex obnupta*
Populus trichocarpa [*balsamifera*]	*Rosa pisocarpa*	
Fraxinus latifolia		

Boundary Information: Depression area; distinct topographic break; vegetation changes to ivy, serviceberry, sword fern, and Douglas fir.

Wetland Functions: High wildlife and scenic values.

Features: Geologic feature: Scabland; wildlife habitat, scenic values.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: SD1	**WETLAND:** W31	**Acreage:** 1.96	**Field Date:** 5-3-95
Location: East of Grahams Ferry Rd		**Tualatin Data Base No:** 45.001-45.004	
Sherwood Quadrangle	T2S R1W **Sec.:** 35	**Quarter:** NW	**Map No:** 5319 **Aerial:** 5

General Description: W31 is located within Victoria Woods subdivision east of Grahams Ferry Road/Helenius St. The broader portion of W31 is situated at the bottom of a ravine with basalt outcroppings and steep hillslopes. There were pockets of ponded water in May, some greater than 18 in. deep, but water was not flowing.

Delineation Date and Delineator: 1993, SRI (the south portion of site only); 1995, AG Crook (portion)

NWI Classification: 100% PFO

Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Willamette River **Sub-basin:** Seely Ditch

Hydrologic Source/Comments: Surface water, stream; water-stained leaves. Perched on clay layer.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
* *Fraxinus latifolia*	* *Physocarpus capitatus*	* *Carex obnupta*
* *Salix lasiandra*		* *Solanum dulcamara*
Populus trichocarpa [*balsamifera*]		*Glyceria elata*
		Polygonum persicaria

Boundary Information: Distinct topographic break; basalt outcrop (west); to the east vegetation changes to Douglas fir, salal, sword fern, Oregon white oak, and madrone.

Wetland Functions/Features: Potential amphibian breeding habitat, high wildlife habitat.

Features: Scabland, wildlife habitat, scenic values, basalt outcrops.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H9	**WETLAND:** W32	**Acreage:** 13.53	**Field Date:** 4-26-95
Location: South of Industrial Way/108th to UGB		**Tualatin Data Base No:** 48.001-48.015	
Sherwood Quadrangle T2S R1W **Sec.:** 34 **Quarter:** NE		**Map No:** 5318	**Aerial:** 4

General Description: W32 is located in the Tonquin scabland area in the southwest corner of the study area. The pond is large and contains a variety of emergents and shrubs. Its large size surrounded by extensive upland forests provides high wildlife value. Surrounding rock outcrops and associated plant communities are unique.

Delineation Date and Delineator: FES, 1995

NWI Classification: 50% POW, 10% PEM, 35% PSS, 5% PFO

Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Hedges Creek tributary, perched on basalt (?) in basin; north of pond beaver have dammed channel flooding upland edge.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Fraxinus latifolia* (and snags)	* *Salix piperi* * *Salix lasiandra* * *Spiraea douglasii*	* *Phalaris arundinacea* * *Nuphar polysepalum* [*luteum*] * *Glyceria* species *Eleocharis palustris* *Alopecurus geniculatus* *Veronica americana* *Juncus effusus* *Ranunculus repens*

Boundary Information: Distinct topographic break surrounding pond and channel to the north; vegetation changes to Douglas fir, Himalayan blackberry, grazed pasture grasses, cherry, snowberry, and Scouler's willow (tall fescue).

Wetland Functions: Wildlife habitat, flood storage, hydrologic control, water quality protection, aesthetics, unique (scabland).

WETLAND SUMMARY SHEET

UNIT: H9	**WETLAND:** W33	**Acreage:** 2.07	**Field Date:** no access
Location: West fork of Hedges Ck, south of Tual-Sherw. Rd.			**TDB No:** 5.001-5.005
Sherwood Quadrangle T2S R1W **Sec.:** 27		**Map No:** 5117, 5217, 5218	**Aerial:** 4

General Description: W33 is the west fork of Hedges Creek. The stream has been impacted by agricultural practices; it has been tiled across a field for cultivation. Vegetation along this reach could not be field-truthed, but it is likely dominated by red alder, red-osier, willow, and ninebark.

Delineation Date and Delineator: 1990, DSL Permit 5713 (Tualatin Database)

NWI Classification: 100% PFO

Mapped Soils: 22 Huberly silt loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Hedges Creek.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Alnus rubra	*Rubus spectabilis* *Cornus stolonifera* *Physocarpus capitatus* *Salix* species	

Boundary Information: Distinct topographic break.

Impacts: Agricultural Runoff.

Wetland Functions: Wildlife Habitat

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H4 **WETLAND:** W34 **Acreage:** 36.01 **Field Date:** 5-16-95

Location: West Ind. Area: Mylony to Tual-Sherwood Rd **TDB No:** 6.001-6.004,7.001-7.013 9.001-9.003

Beav./Sher.Quad.T2S R1W **Sec.:** 22/27 **Quarter:** NW/SW **Map No:** 4917,5017 **Aerial:**1

General Description: W34 was delineated by FES in 1991 for the City of Tualatin. Ditching, tiling, and filling on many properties have altered the natural hydrology and the condition and values of portions of the wetland. On the west end a water quality treatment pond has been created as part of a development and mitigation ponds have also been constructed on a driving range. The eastern portion of the wetland has been ditched and tiled and is typically an agricultural field dominated by reed canarygrass, meadow foxtail, and red fescue. More detailed information specific to each tax lot can be found in *Wetland Delineations of the Western Industrial Area*, by Fishman Environmental Services, 1991, available at the City.

Delineation Date and Delineator: 1991, FES

NWI Classification: 95% PEMf, 5% POWx

Mapped Soils: 27 Labish Mucky clay, 22 Huberly silt loam, 42 Verboort silty clay loam, 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Precipitation; Hedges Creek; hydrology in southern and western portions have been disturbed by ditching and tiling for agricultural purposes.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Salix sp	*Salix* sp	* *Phalaris arundinacea*
	Spiraea douglasii	* *Alopecurus pratensis*
	Crataegus douglasii	* *Festuca rubra*
	Rubus discolor	*Ranunculus repens*
		Carex sp
		Holcus lanatus
		Juncus effusus

Boundary Information: Topographic break (sometimes filled material), vegetation changes to upland pasture grasses, agricultural fields, Himalayan blackberry, Douglas fir, Oregon white oak.

Wetland Functions: Wetland environmental values on W34 are greatly reduced due to major ditching and tiling associated with agricultural practices. There is potential for high hydrologic control, water quality, and wildlife habitat, if restored.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H3	**WETLAND:** W35	**Acreage:** 30.26	**Field Date:** 5-16-95
Location: West of WPA betwn Herman/Myslony		**TDB No:** 10.001 -10.002, 11.001-11.002	
Beaverton Quad. T2S R1W **Sec.:** 22 **Quarter:** SE		**Map No:** 5018 **Aerial:** 1	

General Description: Access was denied on W35, consequently descriptions and mapping are based on observations from adjacent properties and interpretation of aerial photography. This wetland, owned by the Walgraeve's (tax lot 509), has been heavily grazed by cattle but does not appear to be tiled or tilled. The central cleared part of the pasture is very wet with Hedges Creek meandering in a shallow, braided channel. Ash, willows, rushes, and sedges are scattered throughout. A pond in the center of the pasture attracts wildlife. Other portions of this wetland to the west have not been grazed, but have been disturbed by fill activities. More detailed information by tax lot can be located in *Wetland Delineations of the Western Industrial Area*, by Fishman Environmental Services, 1991.

Delineation Date and Delineator: 1991, FES

NWI Classification: 5% POWx, 75% PEM, 20% PFO

Mapped Soils: 27 Labish Mucky clay, 22 Huberly silt loam, 42 Verboort silty clay loam, 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Hedges Creek, perched water.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia		grazed
Salix lasiandra		

Boundary Information: Topographic break (fill in some places), vegetation changes to Douglas fir, Oregon white oak, grazed pasture grasses.

Wetland Functions: High wildlife habitat and hydrologic control.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H	**WETLAND:** W36	**Acreage:** 24.83	**Field Date:** 5-16-95
Location: WIA: Leveton to Herman Rd, E of 124th		**TDB No:**15.001-15.019, 15.025-15.026	
Beav. Quad.T2S R1W **Sec.:** 22 **Quar.:** NW,NE,SW		**Map No:**4917, 4918, 5017	**Aerial:** 1

General Description: W36 is an agricultural area that has been ditched and possibly tiled. Most of the wetland is dominated by reed canarygrass. There are also two small pockets of black hawthorn on either side of 118th. Water drains to the east to a detention/treatment pond; then it is culverted beneath Herman Rd and flows south and then east to Hedges Creek. The ditch on the north end and a portion of the emergent habitat connected to it will be filled and emergent wetlands will be created adjacent to existing wetlands on both sides of 118th.

Delineation Date and Delineator: 1990, SRI(portion); 1991, CH2MHill(portion); 1992, FES(portion);1992, SRI(portion);1194,Adolfson & Assoc.(portion)

NWI Classification: 85% PEM, 15% PSS

Mapped Soils: 13 Cove silty clay loam, 22 Huberly silt loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: precipitation; perched water table.

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
	Crataegus douglasii	*Phalaris arundinacea*

Boundary Information: Slight topographic break, vegetation changes to red clover, wheat, and madrone.

Wetland Functions: Wildlife habitat, water quality and hydrologic control values are presently limited but have high potential if hydrology is restored to a more natural flow.

Wetdet #
94-0201
OKV

W37 revised by subsequent delin 96-0029

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: C1	**WETLAND:** W37	**Acreage:** 23.29	**Field Date:** 5-16-95
Location: WIA betwn Herman and Leveton, w. of 124th.		**TDB No:** 15.020-15.024, 16.001-16.010	
Beaverton Quadrangle T2S R1W **Sec.:** 22 **Quarter:** SW		**Map No:** 5017	**Aerial:** 1

General Description: Most of the wetlands in W37 were delineated by FES for the City of Tualatin in 1992. Ditching or filling on many properties have altered the natural hydrology. Ditches follow property lines and vary in depth from 2.5 ft to 6 ft deep and 3 to 5 feet wide. Three excavated ponds are located in W37 (approx. 3 acres). Two are gravel quarries that have filled with water and one was created for fire control. Vegetation surrounding ponds is generally weedy and disturbed with upland trees and shrubs colonizing pond margins. The least disturbed wetland is located in tax lots 300, 400, and 801. The northwest portion is a Pacific willow/mannagrass community. There is also a band of native sedge community on the southeast margins of F25. The most disturbed wetland is located on tax lot 603 which has been graded flat and used as a storage area for bark dust, sawdust, and equipment. Most of the wood chip debris and equipment have been removed and a portion of historic wetlands have reverted to vernal pool and willow/emergent communities. Specific information for each tax lot can be retrieved from the June 1992 FES report *Wetland Delineations in the City of Tualatin Western Industrial Area*.

Delineation Date and Delineator: 1991, FES (portion); 1992, FES

NWI Classification: 15% POWx, 35% PEM, 5% PEMd, 25% PSS, 20% PFO

Mapped Soils: 13 Cove silty clay loam, 22 Huberly silt loam, 43 Wapato silty clay loam
Hydrologic Basin: Tualatin River **Sub-basin:** Cummins Creek
Hydrologic Source/Comments: Precipitation; standing water in ditches constructed to drain agricultural fields; groundwater fills excavated ponds which hold water year-round.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Salix lasiandra	*Salix piperi*	*Glyceria grandis* [*maxima*]
Fraxinus latifolia		*Typha latifolia*
		Phalaris arundinacea
		Alopecurus pratensis
		Carex stipata

Boundary Information: Topographic break (after fill material or excavated banks) vegetation changes to pasture grasses, vetch, Douglas fir, red hawthorn, Himalayan blackberry.

Wetland Functions: Reduced due to ditching and filling associated with agricultural practices and recent commercial development. High Wildlife Habitat due to diverse wetland and upland plant communities. High hydrologic control and water quality functions due to the broad floodplain. High ecological integrity in willow and carex wetlands.

Fishman Environmental Services

37A is fire pond constructed

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: C1	**WETLAND:** W38	**Acreage:** 4.55	**Field Date:** 4-25-95
Location: Grimm's Fuel Co, SE of Hwy 99W/Cipole Rd.		**TDB No:**	15.028-15.030,17.001-20.001
Beaverton Quadrangle T2S R1W **Sec.:** 21 **Quarter:** SE		**Map No:** 4917	**Aerial:** 1

General Description: W38 includes 2 excavated ponds and a drainage ditch located on the south end of Grimm's property. The ponds are surrounded by varying lengths of a narrow forested wetland fringe of black cottonwood, ash, and/or willow. The western pond is bordered on the north side by a mowed lawn and will be used for camping by scouts. There is limited vegetation for food or cover for wildlife in this area. The pond to the east contains islands of reed canarygrass. Emergent and bank vegetation are dominated by reed canarygrass, spirea, willow, Oregon ash, and rose. The shrubs form a narrow band surrounding at least half of the pond margins. Grimm's enlarged this pond in 1994. The City of Tualatin also constructed a ditch from Leveton Industrial Park to the east pond to collect runoff.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 60% POWx, 25% PEM, 10% PSS, 5% PFO

Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Cummins Creek

Hydrologic Source/Comments: Surface water; perched.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia	*Spiraea douglasii*	* *Phalaris arundinacea*
	Salix lasiandra	*Ranunculus repens*
	Salix sitchensis	
	Rosa nutkana	

Boundary Information: Topographic break; vegetation changes to mowed grasses, Douglas fir, oak, red hawthorn, snowberry and Himalayan blackberry.

Wetland Functions: High wildlife habitat, water quality protection, hydrologic control, and aesthetics. Potential recreation for scouts or others with access

WETLAND SUMMARY SHEET

UNIT: N	**WETLAND:** W39	**Acreage:** 0.25	**Field Date:** 5-15-95
Location: Northeast of Avery/93rd Ave			**Tualatin Data Base No:** 58.001
Sherwood Quadrangle T2S R1W **Sec.:** 26 **Quarter:** NE			**Map No:** 5120 **Aerial:** 5

General Description: W39 is an isolated drainage swale. The intermittent stream flows northwesterly in a channel until it reaches the street and can't be followed. This PFO is surrounded by upland forest with a dense understory of Himalayan blackberry. Once the blackberry is penetrated access improves.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 21C Hillsboro loam (15 Dayton silt loam mapped nearby)

Hydrologic Basin: Tualatin River **Sub-basin:** Nyberg Creek

Hydrologic Source/Comments: surface runoff

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia	*Cornus stolonifera*	*Camas quamash*
Salix species	*Rubus discolor*	*Equisetum* species

Boundary Information: Slight topographic break; vegetation changes to cherry, Indian plum, bald hip rose, and sword fern.

Wetland Functions: Runoff; neighborhood aesthetics.

WETLAND SUMMARY SHEET

UNIT: H	**WETLAND:** W40	**Acreage:** 4.80	**Field Date:** 5-16-95
Location: SE of Tualatin-Sherwood Rd/Teton Rd.		**Tualatin Data Base No:** 3.000- 3.005	
Sherwood Quadrangle T2S R1W **Sec.:** 23 **Quarter:** SW		**Map No:** 5019	**Aerial:** 2

General Description: W40 is an isolated wetland in the Hedges Creek Drainage. Hydrology has been impacted by historical agricultural practices (drainage tile) and the construction of Tualatin-Sherwood Rd. Wetland vegetation is dominated by reed canarygrass. A water quality/detention pond is located in the northwest corner of the site.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 15% POWx, 70% PEM, 15% PFO

Mapped Soils: 27 Labish mucky clay; 45B Woodburn silt loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Seep.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Alnus rubra*	*Spiraea douglasii*	* *Phalaris arundinacea*
Populus trichocarpa [*balsamifera*]		* *Typha latifolia*
		* *Scirpus microcarpus*
		Alopecurus pratensis

Boundary Information: Generally distinct topographic break; vegetation changes to tall fescue, Canada thistle, and sweet vernal grass. At the east end of the field, collapsed drainage tile has caused scattered wet depressions.

Wetland Functions: Water quality treatment pond in northwest corner. Limited to medium wildlife habitat due to proximity of Tualatin-Sherwood Road.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: LO	**WETLAND:** W41	**Acreage:** 0.86	**Field Date:** 5-5-95
Location: Vicinity of 63rd/Rosewood St.		**Tualatin Data Base No:** 51.003	
Lake Oswego Quad T2S R1W **Sec.:** 18 **Quarter:** NW		**Map No:** 4723	**Aerial:** 3

General Description: W41 is an excavated drainage channel with steep hillslopes and an adjacent seep area. It flows to the east.

Delineation Date and Delineator: 1994, Scoles Assoc., Inc.(portion) 1994-0138

NWI Classification: 50% PEMx, 50% PFO

Mapped Soils: 42 Verboort silty clay loam, 62B Multnomah cobbly silt loam.

Hydrologic Basin: Willamette River (?) **Sub-basin:** Unknown Lake Oswego

Hydrologic Source/Comments: Spring, stream.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Populus trichocarpa* [*balsamifera*]		* *Solanum dulcamara*
Salix lasiandra		*Polygonum cuspidatum*
Alnus rubra		*Lolium multiflorum*
		Festuca rubra

Boundary Information: Topographic break, vegetation changes to Himalayan blackberry.

Wetland Functions: Runoff.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: LO1	**WETLAND:** W42 WD 1997-0283	**Acreage:** 0.47	**Field Date:** 5-5-95
Location: Vicinity of 63rd/Rosewood St.		**Tualatin Data Base No:** 51.001-51.002	
Lake Oswego Quadrangle T2S R1W **Sec.:** 18 **Quarter:** NW		**Map No:** 4723	**Aerial:** 3

General Description: W42 is a ponded-emergent wetland contiguous with F30. It is located north of GI Joes near 63rd and Rosewood St. Additional runoff from the north has raised the water level, killing Douglas fir trees in adjacent uplands. The pond is springfed but water quality has been degraded by industrial runoff. A pair of Canada geese nested this year on the well house adjacent to the pond. Bullfrogs and turtles have also been observed by people who work in the area and have an interest in the pond.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 70% POW, 20% PEM, 10% PFO

Mapped Soils: 62B Multnomah cobbly silt loam.

Hydrologic Basin: Willamette River (?) **Sub-basin:** unknown Lake Oswego

Hydrologic Source/Comments: Spring, excessive runoff from adjacent property.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
	Salix piperi *Salix sitchensis*	*Phalaris arundinacea*

Boundary Information: Distinct topographic break; vegetation changes to Douglas fir.

Wetland Functions: Wildlife habitat (although poor water quality).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H	**WETLAND:** W43	**Acreage:** 0.15	**Field Date:** 5-24-95
Location: Northeast of 118th/Myslony		**Tualatin Data Base No:** 12.001	
Beaverton Quadrangle T2S R1W **Sec.:** 22 **Quarter:** SW		**Map No:** 5017	**Aerial:** 1

General Description: W43 is a small scrub-shrub wetland. Vegetation is dominated by black hawthorn and meadow foxtail. W43 is isolated and of low environmental and social values.

Delineation Date and Delineator: SRI, 1991

NWI Classification: 100% PSS

Mapped Soils: 22 Huberly silt loam.

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Depression area.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
	* *Crataegus douglasii*	*Alopecurus pratensis*

Boundary Information: Slight topographic break; vegetation changes to mowed upland grasses.

Wetland Functions: None.

possibly
wetdet #
91-0047

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H	**WETLAND:** W44	**Acreage:** 0.41 (filled)	**Field Date:** 5-24-95
Location: Northeast of 118th/Myslony			**Tualatin Data Base No:** 13.001
Beaverton Quadrangle T2S R1W **Sec.:** 22 **Quarter:** SW		**Map No:** 5017	**Aerial:** 1

General Description: W44 is an isolated wetland which drains into a water quality treatment swale and then continues to Hedges Creek. It is surrounded by fill and industrial development. W44 was filled during the summer of 1995.

Delineation Date and Delineator: 1991,FES; 1991, SRI

NWI Classification: 100% PEM

Mapped Soils: 22 Huberly silt loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Seep, surface runoff.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Populus trichocarpa [*balsamifera*]	*Crataegus douglasii*	*Phalaris arundinacea*
Fraxinus latifolia	*Salix* species	*Alopecurus pratensis*
		Typha latifolia
		Carex species
		Scirpus microcarpus

Boundary Information: Distinct topographic break; fill.

Wetland Functions: Drains into water quality treatment swale.

wetdet
91-0152 ?
check permit?

WETLAND SUMMARY SHEET

UNIT: T7	**WETLAND:** W45	**Acreage:** 0.75	**Field Date:** No Access
Location: SW of Tualatin River/Highway 99W			**Tualatin Data Base No:** 24.002
Beaverton Quadrangle T2S R1W **Sec.:** 15 **Quarter:** SE		**Map No:** 4817	**Aerial:** 1

General Description: W45 is located in the Tualatin River floodplain. No access was allowed on the site which was under construction for an RV Park. According to RZA (1992) dominant wetland vegetation included black cottonwood, reed canarygrass, velvet-grass, colonial bentgrass, soft rush, and horsetail. Part of the wetland has been filled and will be mitigated by the creation of additional floodplain wetlands.

Delineation Date and Delineator: 1992, RZA

NWI Classification: 100% PEM

Mapped Soils: 10 Chehalis silt loam

Hydrologic Basin: Tualatin River **Sub-basin:** none

Hydrologic Source/Comments: Seep, 100 year floodplain

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Populus trichocarpa [*balsamifera*]		*Phalaris arundinacea* *Holcus lanatus* *Agrostis tenuis* *Juncus effusus* *Equisetum* species

Boundary Information: Distinct topographic break; vegetation changes to Kentucky bluegrass, orchard grass, clover, and dandelion.

Wetland Functions: 100 year floodplain

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: H	**WETLAND:** W46	**Acreage:** 0.05	**Field Date:** 4-26-95
Location: South of bus parking area; Industrial Way/108th		**Tualatin Data Base No:** 59.001	
Sherwood Quadrangle T2S R1W **Sec.:** 34 **Quarter:** NE		**Map No:** 5318 **Aerial:** 4	

General Description: This very small wetland is surrounded by fill. It is isolated from other wetlands and has limited resource values.

Delineation Date and Delineator: 1995, FES

NWI Classification: 30% PEM, 40% PFO, 30% PSS

Mapped Soils: 22 Huberly silt loam, 21C Hillsboro loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Depression area, surface water drainage.

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia	*Spiraea douglasii*	*Juncus effusus* *Carex* species *Festuca arundinacea*

Boundary Information: Vegetation changes to tall fescue with no soft rush or sedge.

Wetland Functions: Wildlife habitat

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: SD	**WETLAND:** W47	**Acreage:** 2.15	**Field Date:** 4-26-95
Location: SW of Ibach Rd./Boones Ferry Rd.			**Tualatin Data Base No:** 6.025-6.036
Sherwood Quadrangle T2S R1W **Sec.:** 35 **Quarter:** NW		**Map No:** 5319	**Aerial:** 5

General Description: W47 is the headwaters of Hedges Creek. Most of the wetlands have been used to pasture cattle and horses. Portions of the stream have been channelized. The north end of the drainage is culverted to the north of Ibach St. Vegetation is dominated by beggar's tick, creeping buttercup, grazed grasses, and water foxtail.

Delineation Date and Delineator: 1992, FES

NWI Classification: 100% PEM

Mapped Soils: 43 Wapato silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: Stream, seep

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Fraxinus latifolia	*Spiraea douglasii*	*Ranunculus repens*
Populus trichocarpa [*balsamifera*]		*Bidens cernua*
		Alopecurus geniculatus
		Agrostis alba
		Juncus nevadensis
		Carex obnupta
		Polygonum persicaria
		Myosotis laxa

Boundary Information: Distinct topographic break; vegetation changes to grazed grasses and Douglas fir.

Wetland Functions: Wildlife habitat; minor water quality and hydrologic control functions; groundwater.

WETLAND SUMMARY SHEET

UNIT: H2	**WETLAND:** W48	**Acreage:** 1.96	**Field Date:** 4-07-95
Location: Northwest of Boones Ferry/Tualatin Rd. (Sweek Pond)			**Tualatin Data Base No:** 1.046
Beaverton Quad. T2S R1W **Sec.:**23 **Quarter:** NE			**Map No:** 4920 **Aerial:** 2

General Description: W48 is Sweek Pond which is located north of the eastern end of the Wetland Protection Area. It is a man-made pond that historically was fed by a channel diverted from Hedges Creek. In a more recent years, part of the channel feeding Sweek Pond has been blocked and re-diverted back into Hedges Creek reducing the amount of surface water flowing into the pond. Sweek Pond dries out completely during the summer.

Delineation Date and Delineator: 1978, ACOE

NWI Classification: 50% PEMx, 40% POWx, 10% PFO

Mapped Soils: 43 Wapato Silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** Hedges Creek

Hydrologic Source/Comments: a channelized ditch in the Hedges Creek drainage; surface runoff

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
Populus trichocarpa [*balsamifera*]		* *Phalaris arundinacea*
Fraxinus latifolia		* *Polygonum* species
Salix species		*Solanum dulcamara*
		Juncus effusus

Boundary Information: Distinct topographic break

Wetland Functions: Sweek pond provides high values for wildlife habitat, hydrologic control and water quality protection. Trails exist on the south end of the pond. High recreational and educational potential. In the ZIAN Resources Management Plan, Sweek Pond is designated as a focal point for environmental education and perhaps rebuilding of the historic Hedges House.

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: C	**WETLAND:** W49	**Acreage:** 1.83	**Field Date:** 6-9-95
Location: SE of Hwy 99W/Cipole Rd.		**Tualatin Data Base No:** 21.001-21.003	
Beaverton Quad. T2S R1W **Sec.:** 21 **Quarter:** SE		**Map No:** 5016	**Aerial:** 1

General Description: W49 is an excavated pond in a former sand quarry. An active fill area is located just north of the pond. The south and west ends of the pond contain a well-developed riparian canopy of black cottonwood and willow.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 65% POWx, 35% PFO

Mapped Soils: 21b Hillsboro loam

Hydrologic Basin: Tualatin River **Sub-basin:** Cummins Creek

Hydrologic Source/Comments: depression area; surface and groundwater

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
Populus trichocarpa	*Salix sitchensis* *Salix piperi*	*Lolium multiflorum* *Eleocharis species* *Juncus bufonius* *Alisma plantago-aquatica*

Boundary Information: Distinct topographic break; vegetation changes to oxeye daisy, Scot's broom, white clover, and Himalayan blackberry

Wetland Functions: High wildlife habitat due to riparian cover and additional wetlands and upland forests to the south.

Fish? - questionable
dries out summer

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T1	**WETLAND:** W50	**Acreage:** 0.18	**Field Date:** 4-20-95
Location: North of Natchez Ct.			**Tualatin Data Base No:** 42.001
Lake Oswego Quadrangle T2S R1W **Sec.:** 19	**Quarter:** SE	**Map No:** 5024	**Aerial:** 3

General Description: W50 is a spring and short drainage to the Tualatin River. It is approximately 30 ft across at the south end and narrows to approximately 10 feet where it meets the Tualatin River. Vegetation is dominated by red alder, salmonberry, Piper's willow, lady fern, and speedwell. Water is clear and there is a variety of food and cover for wildlife. It is connected to a larger forest to the south and east (F13) and a meadow to the west (M1).

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 56 McBee silty clay loam

Hydrologic Basin: Tualatin River **Sub-basin:** NA

Hydrologic Source/Comments: spring, surface water drainage

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
Alnus rubra	*Salix piperi*	*Athyrium filix-femina*
	Rubus spectabilis	*Veronica americana*

Boundary Information: Distinct topographic break; vegetation changes to big leaf maple, Pacific waterleaf, Indian plum, fringecup, and red elderberry.

Wetland Functions: High wildlife habitat (spring, food and cover, adjacent to large woodland), connectivity (contiguous to Tualatin River), and aesthetics (spring, contiguous to Tualatin River).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T7	**WETLAND: W51**	**Acreage: 0.84**	**Field Date: 4-16-95**
Location: North of Cipole/Hwy 99W			**Tualatin Data Base No:55.001-55.002**
Beaverton Quad. T2S R1W Sec.: 16 Quarter: SW			**Map No: 4815** **Aerial: 1**

General Description: W51 is located on an occasional overflow area of the Tualatin River. Vegetation is dominated by Oregon ash, red alder, Pacific ninebark, and reed canarygrass. The site is contiguous with F42 and F43. Trails switchback through the steep hillslopes of F42 and down to the floodplain. W51 contains pockets of uplands.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 9 Chehalis silty clay loam (occasional overflow)

Hydrologic Basin: Tualatin River **Sub-basin:** NA

Hydrologic Source/Comments: Tualatin River, groundwater

Dominant Vegetation: (* = major dominant)

Trees	Shrubs	Herbs/Emergents
* *Fraxinus latifolia*	* *Physocarpus capitatus*	* *Phalaris arundinacea*
* *Alnus rubra*	*Sambucus racemosa*	*Urtica dioica*
	Salix species	*Dactylis glomerata*
	Acer circinatum	
	Rubus discolor	

Boundary Information: Distinct topographic break; vegetation changes to Douglas fir, big leaf maple, snowberry, hazelnut, Pacific waterleaf, and sword fern

Wetland Functions: High wildlife habitat (food and cover adjacent to the River), connectivity, aesthetics (adjacent to the River).

Tualatin Local Wetlands Inventory - Offsite Option

WETLAND SUMMARY SHEET

UNIT: T5	**WETLAND:** W52	**Acreage:** 1.06	**Field Date:** 6-16-95
Location: NW of the Tualatin River/RXR (Oregon Electric)			**Tualatin Data Base No:** 33.001
Beaverton Quadrangle T2S R1W **Sec.:** 14 **Quarter:** SE			**Map No:** 4820 **Aerial:** 2

General Description: W52 is located on the north bank of the Tualatin River. The site was observed from the railroad bridge due to difficult access. Vegetation is dominated by Oregon ash, spirea, and reed canarygrass.

Delineation Date and Delineator: No known previous delineation

NWI Classification: 100% PFO

Mapped Soils: 10 Chehalis silt loam (occasional overflow)

Hydrologic Basin: Tualatin River **Sub-basin:** NA

Hydrologic Source/Comments: Tualatin River

Dominant Vegetation: (* = major dominant)

Trees	**Shrubs**	**Herbs/Emergents**
* *Fraxinus latifolia*	* *Spiraea douglasii* *Rubus discolor*	* *Phalaris arundinacea*

Boundary Information: Distinct topographic break; vegetation changes to Douglas fir, snowberry, and Himalayan blackberry

Wetland Functions: High wildlife habitat (food and cover adjacent to the River), connectivity, and aesthetics (adjacent to the River)

Forested wetl. Characterization

Tualatin-LWI WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W21 County: Washington State: OR Date: 6/29/95 Plot: PFO

Applicant/Owner: _____ Sect ____ Township ____ Range ____ City: Tualatin

Lot Location: _____

Topographic Location: _____

Do Normal Circumstances exist on the site? (Y) N Explain: _____

Are soils ____ vegetation ____ hydrology ____ significantly disturbed? (N) Explain: _____

VEGETATION

*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: 20		
1. Carex deweyana	100%	FAC-
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		

*Dominant Plant Species	% Cover	Ind.
Shrub/Sapling Stratum - % total cover: 40		
1. Crataegus douglasii	10	FAC
2. Rosa nutkana	20	FAC
3. Douglas' spirea	30	FACW
4. Rubus sp.		
5.		
Tree Stratum - % total cover: 40		
1. Fraxinus latifolia	90	FACW
2. Populus tremuloides	10	FAC+
3.		

Remarks: _____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/4 = 75%

Hydrophytic Vegetation Criterion Met? (YES) NO

OILS

Mapped unit name: Cove Matches Profile? Y (N)

Taxonomy: Vertic Haplaquoll Drainage Class: Poorly

Depth	Horizon	Matrix Color	Mottle Color, Abund., Size, On Pores/Peds?	Texture, Structure
0-10"	A	10YR 3/3	—	SL, Granular
10-14"	AB	10YR 3/2	Many, fine to med., distinct 7.5YR 4/4 Peds	SL, subangular blocky
14-18"	Bt	10YR 4/1	—	SCL platey to subang. blocky
18-20"+	B2t	10YR 4/1	—	clay angular blocky

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer

___Histic Epipedon ___Gleyed ___Organic Streaking

___Sulfidic Odor ✓ Mottled (w/i 10") ___Organic Pan

✓ Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: _____

Hydric Soil Criterion / Indicators Met? (YES) NO

HYDROLOGY

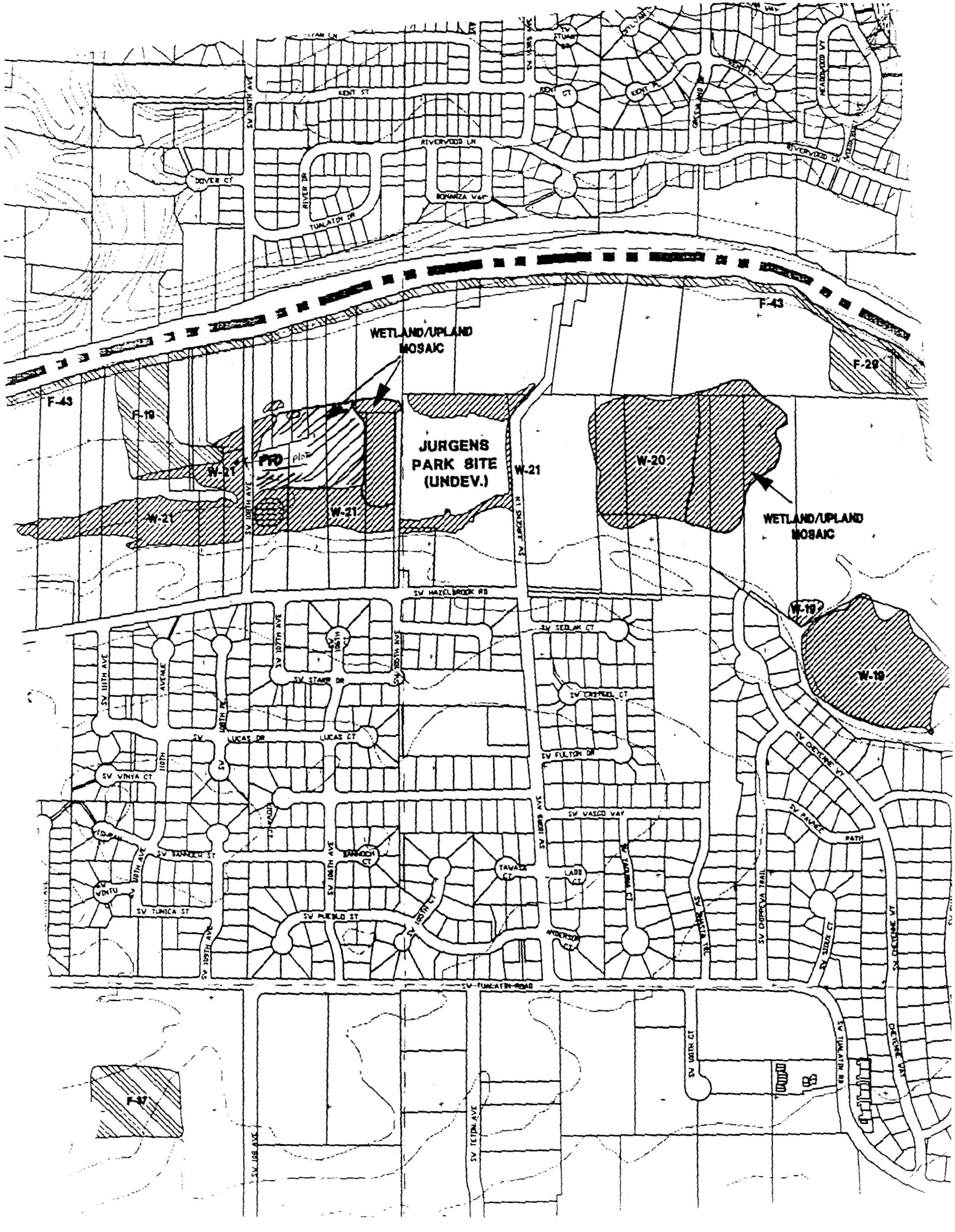
Depth of inundation: NA Depth to saturation: > 18" Depth to free water: >18"

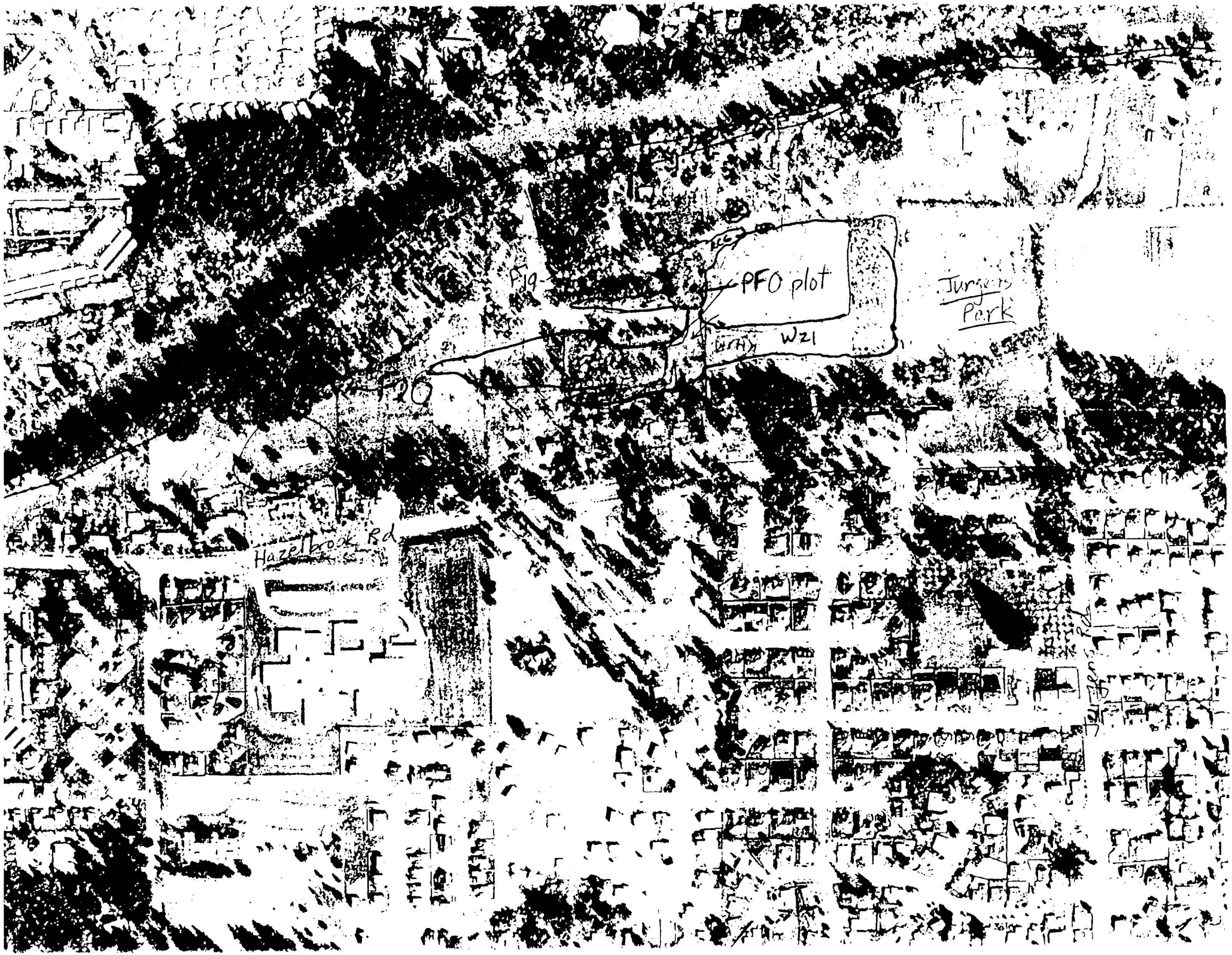
1° Indicators	2° Indicators	2° Indicators
___Inundated	___Oxidized Root Channels in upper 12"	___Local Soil Survey Data
___Saturated in upper 12"	✓ Water-stained leaves	___FAC-Neutral Test
___Water Marks	Recorded Data Available (aerials, gauge) ? - Explain:	
___Drift Lines	Other: layer of water stained leaves on forest floor	
___Sediment Deposits		
___Drainage Patterns	Wetland Hydrology Criterion / Indicators Met? (YES) NO	

DETERMINATION: Is this plot a Wetland? (YES) NO

Comments: _____

Determined by: M. Vlahos Fishman Environmental Services


WETLAND/UPLAND MOSAIC
JURGENS PARK SITE (UNDEV.)
WETLAND/UPLAND MOSAIC
F-43
F-29
F-19
F-37
W-21
W-20
W-19
PFD plat
SW HAZELBROOK RD
SW FULTON DR
SW FUNLATIN ROAD
SW JURGENS ST
SW 108TH AVE
SW 110TH AVE
SW LUCAS DR
SW LUCAS CT
SW STARR DR
SW SEDLAK CT
SW VASCO WAY
SW PUEBLO ST
SW TUNICA ST
SW BANNOCK ST
SW WINYA CT
SW WINTU CT
SW TAWAKE CT
SW LADD CT
SW ANDERSON CT
SW OSTRYA TRAIL
SW OSTRYA VI
SW PAWEE PATH
SW TUALATIN RD
SW 100TH CT
SW TETON AVE
SW JOB AVE
KENT ST
KENT CT
KENT PL
RIVERWOOD LN
RIVER DR
TUALATIN DR
BONANZA WAY
DOVER CT
SW 105TH AVE


PFO plot
W21
Jurgens Park
Hazelbrook Rd

Scrub-shrub Characterization

Tualatin LWI WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W36 County: Washington State: OR Date: 6/15/95 Plot: PSS

Applicant/Owner: Sect. Township Range City: Tualatin

Plot Location: E of 118th

Topographic Location:

Do Normal Circumstances exist on the site? (Y) N Explain:

Are soils ____ vegetation ____ hydrology ____ significantly disturbed? (N) Explain:

VEGETATION

*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: 40		
1. Phalaris arundinacea	90	FACW
2. Juncus effusus	10	FACW
3. Galium spp.	(Few)	
4.		
5.		
6.		
7.		
8.		
9.		

*Dominant Plant Species	% Cover	Ind.
Shrub/Sapling Stratum - % total cover: 30		
1. Rosa nutkana	100%	FAC
2.		
3.		
4.		
5.		
Tree Stratum - % total cover: 30		
1. Crataegus douglasii	100%	FAC
2.		
3.		

Remarks:

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 3/3 = 100%

Hydrophytic Vegetation Criterion Met? (YES) NO

SOILS

Mapped unit name: Cove SiCL Matches Profile? Y (N)

Taxonomy: Drainage Class: Poorly drained

Depth	Horizon	Matrix Color	Mottle Color, Abund., Size, On Pores/Peds?	Texture, Structure
0-10"	Ap	10YR 3/1	Common, fine, faint, 7.5YR 4/6 on Peds	SL Granular
10-17"	Ap2	10YR 3/1	few, fine, faint, 7.5YR 4/6 " "	SCL "
17-22"+	AB ?	10YR 3/2	few, fine to med, distinct, 7.5YR 4/6 " "	Gravelly, SCL "

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer

___Histic Epipedon ___Gleyed ___Organic Streaking

___Sulfidic Odor ∝ Mottled (w/i 10") ___Organic Pan

∝ Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: High organics in A horizon (roots), AB slightly cemented on sand grains.

Hydric Soil Criterion / Indicators Met? (YES) NO

HYDROLOGY

Depth of inundation: NA Depth to saturation: > 22" Depth to free water: > 22"

1° Indicators	2° Indicators	2° Indicators
___Inundated	___Oxidized Root Channels in upper 12"	___Local Soil Survey Data
___Saturated in upper 12"	___Water-stained leaves	___FAC-Neutral Test
___Water Marks	Recorded Data Available (aerials, gauge) ? - Explain:	
___Drift Lines	Other: Strong soil saturation indicators	
___Sediment Deposits		
___Drainage Patterns	Wetland Hydrology Criterion / Indicators Met? (YES) NO	

DETERMINATION: Is this plot a Wetland? (YES) NO

Comments:

Determined by: M. Makuts *Fishman Environmental Services*

Emergent Characterization

Tualatin LWI WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W36 County: Washington State: OR Date: 6/ 195 Plot: PEM

Applicant/Owner: Sect ___ Township ___ Range ___ City: Tualatin

ot Location: middle of RCG field, east of 115th

Topographic Location:

Do Normal Circumstances exist on the site? (Y) N Explain:

Are soils ___ vegetation ___ hydrology X significantly disturbed? N Explain: Ditches

VEGETATION

*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: 100		
1. Phalaris arundinacea	100	FACW
2. Myosotis scorpioides	(Few)	FACW
3. Lotus corniculatus	(Few)	FAC
4.		
5.		
6.		
7.		
8.		
9.		

*Dominant Plant Species	% Cover	Ind.
Shrub/Sapling Stratum - % total cover: Ø		
1.		
2.		
3.		
4.		
5.		
Tree Stratum - % total cover: Ø		
1.		
2.		
3.		

Remarks:

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): ___ = 100%

Hydrophytic Vegetation Criterion Met? (YES) NO

SOILS

Mapped unit name: Cove SiCL Matches Profile? Y (N)

Taxonomy: Drainage Class: poorly Drained

Depth	Horizon	Matrix Color	Mottle Color, Abund., Size, On Pores/Peds?	Texture, Structure
0-9"	Ap	10YR 3/1	many, fine to med. distinct 10YR 4/6 on pores	SCL Granular
9-14"	Bg	10YR 4/1	Gleyed	clay subang. blocky
14-20"+	B2g	5Y 3/1	Gleyed	clay w/ some course sand

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer

___Histic Epipedon X Gleyed ___Organic Streaking

___Sulfidic Odor ✓ Mottled (w/i 10") ___Organic Pan

X Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List

Remarks: B horizon clays sticky + plastic. Lots of organics (roots) in Ap. Soil v. moist throughout.

Hydric Soil Criterion / Indicators Met? (YES) NO

HYDROLOGY

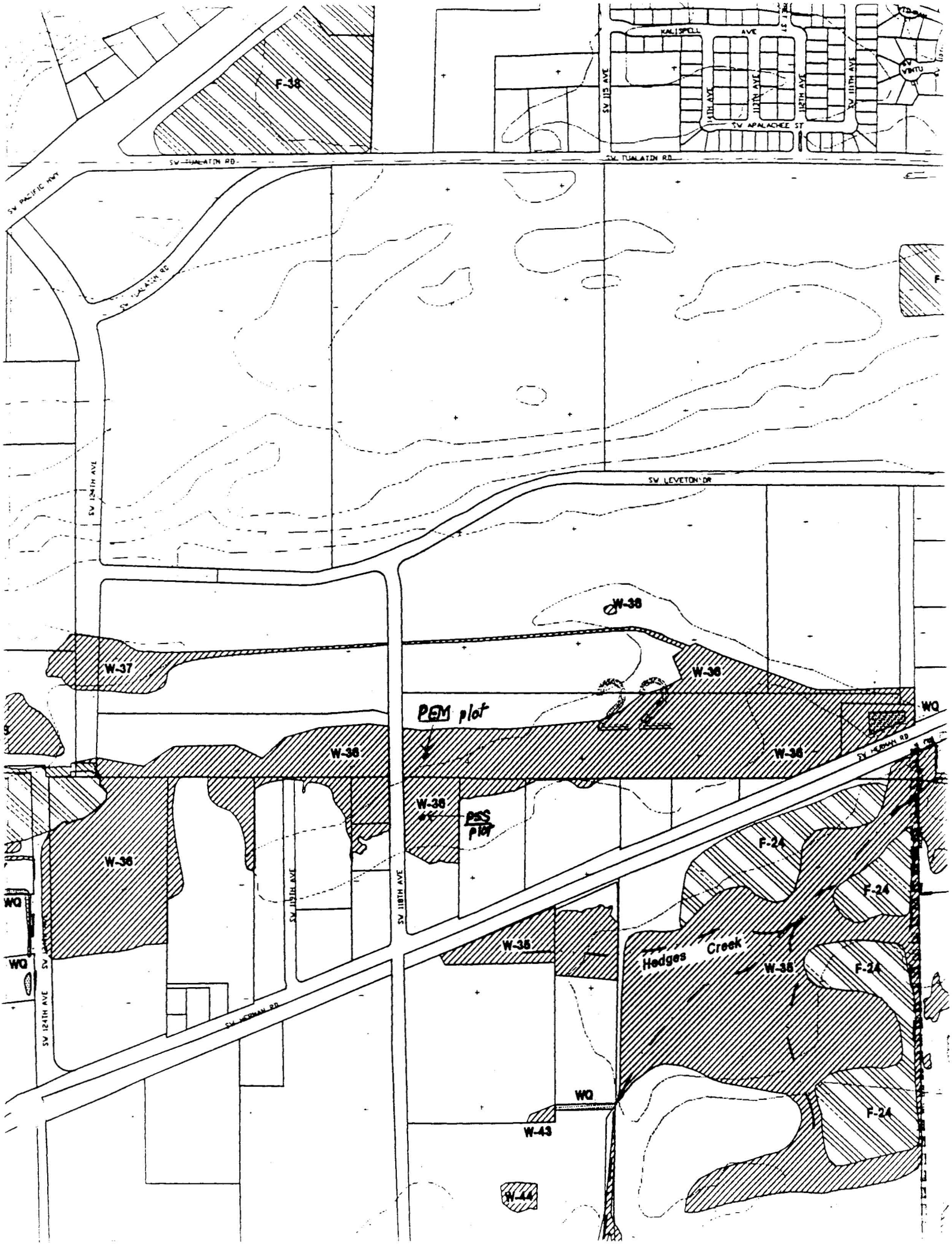
Depth of inundation: NA Depth to saturation: ◆ >20" Depth to free water: >20"

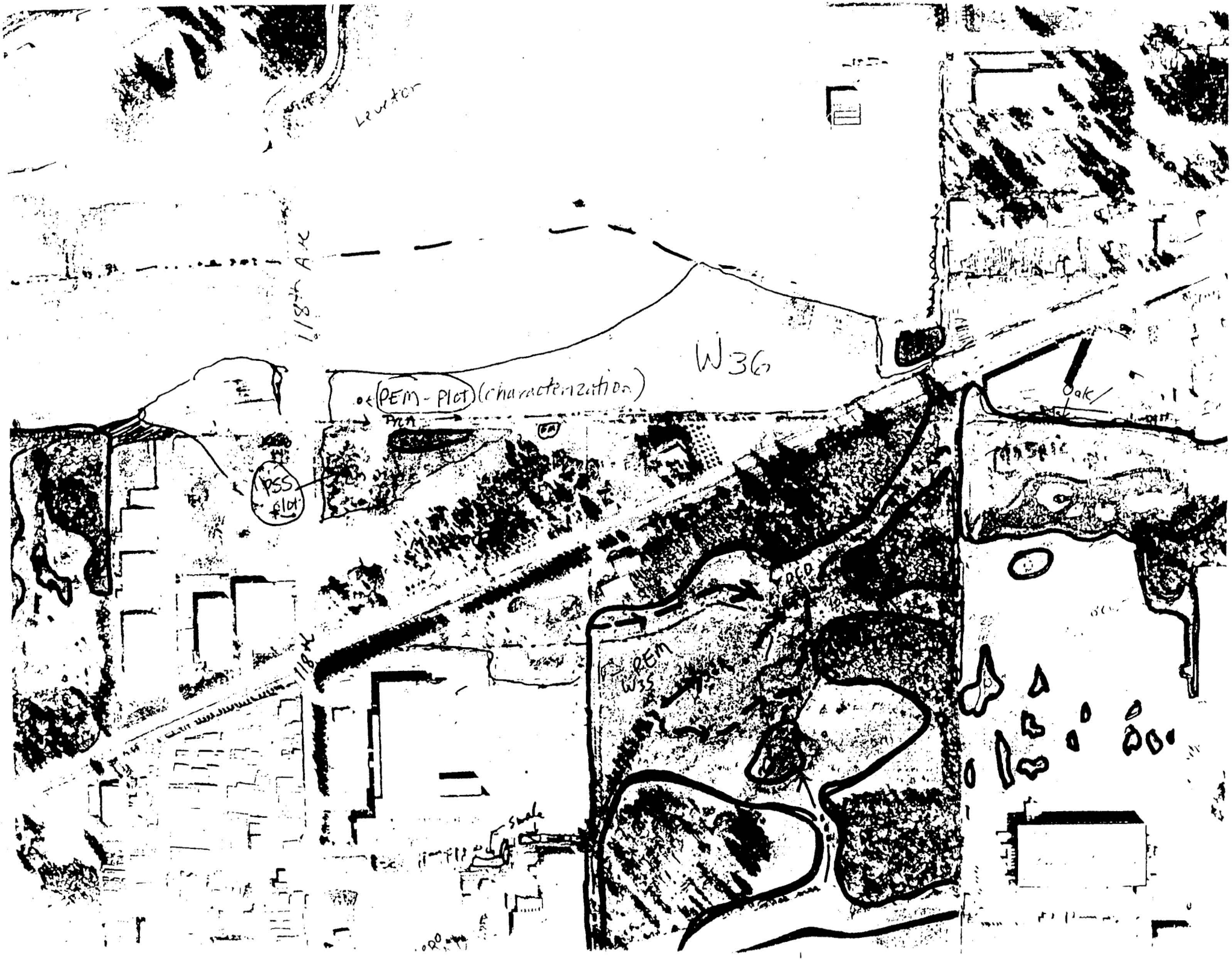
1° Indicators	2° Indicators	2° Indicators
___Inundated	X Oxidized Root Channels in upper 12"	___Local Soil Survey Data
___Saturated in upper 12"	___Water-stained leaves	___FAC-Neutral Test
___Water Marks	Recorded Data Available (aerials, gauge) ? - Explain:	
___Drift Lines	Other: Strong soil / saturation indicators	
___Sediment Deposits		
___Drainage Patterns	Wetland Hydrology Criterion / Indicators Met? (YES) NO	

DETERMINATION: Is this plot a Wetland? (YES) NO

Comments:

Determined by: M. Vahalik Fishman Environmental Services


F-38
SW TUALATIN RD
SW PACIFIC HWY
SW 124TH AVE
SW LEVETON DR
W-38
W-37
W-36
PEM plot
WQ
SW HERMAN RD
PSS Plot
F-24
SW 118TH AVE
Hedges Creek
W-43
W-44


Levator
118th Ave
W36
(PEM - Plot) (characterization)
PEM
PSS
#101
PEM
W35
118th
Oak

Disturbed Site (W4)

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W4 County: Washington State: OR Date: 6/12/95 Plot: #1
Applicant/Owner: _____ Sect. ____ Township ____ Range ____ City: Tualatin
Plot Location: Open field west of I-5 and east of Fred Meyer
Topographic Location: Bottom area of field elevation
Do Normal Circumstances exist on the site? Y N Explain: _____
Are soils ____ vegetation ____ hydrology ____ significantly disturbed? (N) Explain: _____

VEGETATION

*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: 100		
1. Phalaris arundinacea	100	FACW
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

*Dominant Plant Species	% Cover	Ind.
Shrub/Sapling Stratum - % total cover: Ø		
1.		
2.		
3.		
4.		
5.		
Tree Stratum - % total cover: Ø		
1.		
2.		
3.		
4.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): FACW = 100%
Hydrophytic Vegetation Present? (YES) NO

SOILS

Mapped unit name: Wapato Matches Profile? Y (N) – more like the Cove series
Taxonomy: Fluvaquentic Haplaquoll Drainage Class: Poor

Depth	Horizon	Matrix Color	Mottle Color, Abund., Size, On Pores/Peds?	Texture, Structure
0-4"	A	10YR 3/2	many fine to v. fine roots	silt loam, granular
4-6"	AB	7.5YR 3/0 (N3)	oxidized root channels (common)	silty clay loam, subangular
6-18"	Bg	7.5YR 3/0 (N2)	v. sticky + v. plastic	clay, subangular

___Histosol ___Reducing Conditions (test) ✓Hi. Organic Cont. Surf. Layer
___Histic Epipedon ✓Gleyed ___Organic Streaking
___Sulfidic Odor ✓Mottled (w/i 10") oxidized root chan. ___Organic Pan
✓Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: v. moist throughout
Hydric Soils Present? (YES) NO

HYDROLOGY

Depth of inundation: NA Depth to saturation: ~12" Depth to free water: >18"

1° Indicators	2° Indicators	2° Indicators
___Inundated	✓Oxidized Root Channels in upper 12"	___Local Soil Survey Data
✓Saturated in upper 12"	___Water-stained leaves	___FAC-Neutral Test
___Water Marks	Recorded Data Available (aerials, gauge) ? - Explain: _____	
___Drift Lines	Other: Bottom of field slope	
___Sediment Deposits		
___Drainage Patterns	Wetland Hydrology Present? (YES) NO	

DETERMINATION: Is this plot a Wetland? (YES) NO
Comments: _____
Determined by: Mark Vlahakis *Fishman Environmental Services*

Disturbed Site (W4)

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W4 County: Washington State: OR Date: 6/12/95 Plot: #2
Applicant/Owner: _____ Sect. ____ Township ____ Range ____ City: Tualatin
Plot Location: West of I-5, east of Fred Meyer.
Topographic Location: Due east of Key building — about mid slope
Do Normal Circumstances exist on the site? (Y) N Explain: _____
Are soils ____ vegetation ____ hydrology ____ significantly disturbed? (N) Explain: _____

VEGETATION

*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: 100		
1. Phalaris arundinacea	FACW	60%
2. Alopecurus pratensis	FACW	40%
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

*Dominant Plant Species	% Cover	Ind.
Shrub/Sapling Stratum - % total cover: 0		
1.		
2.		
3.		
4.		
5.		
Tree Stratum - % total cover: 0		
1.		
2.		
3.		
4.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 60% = FACW
Hydrophytic Vegetation Present? (YES) NO

SOILS

Mapped unit name: McBee Matches Profile? Y (N) Transition
Taxonomy: Cumulic ultic Haploxeralf Drainage Class: Mod. Well Drained

Depth	Horizon	Matrix Color	Mottle Color, Abund., Size, On Pores/Peds?	Texture, Structure
0-3"	A	10YR 3/3		silt loam, granular
3-10"	AB	10YR 3/1	Few, fine, distinct, dark yellowish brown (10YR 4/4)	silty clay loam, sub ang.
10-14"	B	10YR 3/1	Common, medium, distinct, dark yellowish brown (10YR 4/4)	silty clay, sub ang.

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ∝ Mottled (w/i 10") ___Organic Pan
∝ Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: Transition soil between upland + wetland. Oxidized root channels @ 6"
Hydric Soils Present? (YES) NO

HYDROLOGY

Depth of inundation: NA Depth to saturation: 10" Depth to free water: >14"

1° Indicators	2° Indicators	2° Indicators
___Inundated	∝ Oxidized Root Channels in upper 12"	___Local Soil Survey Data
∝ Saturated in upper 12"	___Water-stained leaves	___FAC-Neutral Test
___Water Marks	Recorded Data Available (aerials, gauge) ? - Explain:	
___Drift Lines	Other: just ~~below~~ above bottom of field slope	
___Sediment Deposits		
___Drainage Patterns	Wetland Hydrology Present? (YES) NO	

DETERMINATION: Is this plot a Wetland? (YES) NO
Comments: _____
Determined by: Mark Fishman — *Fishman Environmental Services*

Disturbed Site (W4)

WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W4 County: Washington State: OR Date: 6/12/95 Plot: #3
Applicant/Owner: Sect. Township Range City: Tualatin
Plot Location: West of I-5, east of Fred Meyers
Topographic Location: Upper slope, north end of site
Do Normal Circumstances exist on the site? (Y) N Explain:
Are soils vegetation hydrology significantly disturbed? (N) Explain:

VEGETATION

*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: 100		
1. Alopecurus pratensis	100%	FACW
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

*Dominant Plant Species	% Cover	Ind.
Shrub/Sapling Stratum - % total cover: 0		
1.		
2.		
3.		
4.		
5.		
Tree Stratum - % total cover: 0		
1.		
2.		
3.		
4.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): _____ = 0%
Hydrophytic Vegetation Present? YES (NO)

SOILS

Mapped unit name: Aloha Matches Profile? (Y) N
Taxonomy: Aquic Xerochrepts Drainage Class: SPD

Depth	Horizon	Matrix Color	Mottle Color, Abund., Size, On Pores/Peds?	Texture, Structure
0-3"	A	10YR 3/3		Silt Loam, granular
3-8"	AB	10YR 3/3	Few, faint, fine, yellowish brown (10YR 5/6)	silt loam, subang
8-16+"	B	10YR 4/3	Few, faint, fine, yellowish brown (10YR 5/6)	silty clay loam, subang.

___Histosol ___Reducing Conditions (test) ___Hi. Organic Cont. Surf. Layer
___Histic Epipedon ___Gleyed ___Organic Streaking
___Sulfidic Odor ___Mottled (w/i 10") ___Organic Pan
✓ Prob. Aquic Moisture Regime ___Concretions (w/i 3", >2mm) ___On Hydric Soils List
Remarks: Soil Dry throughout (colors moist)
Hydric Soils Present? YES (NO)

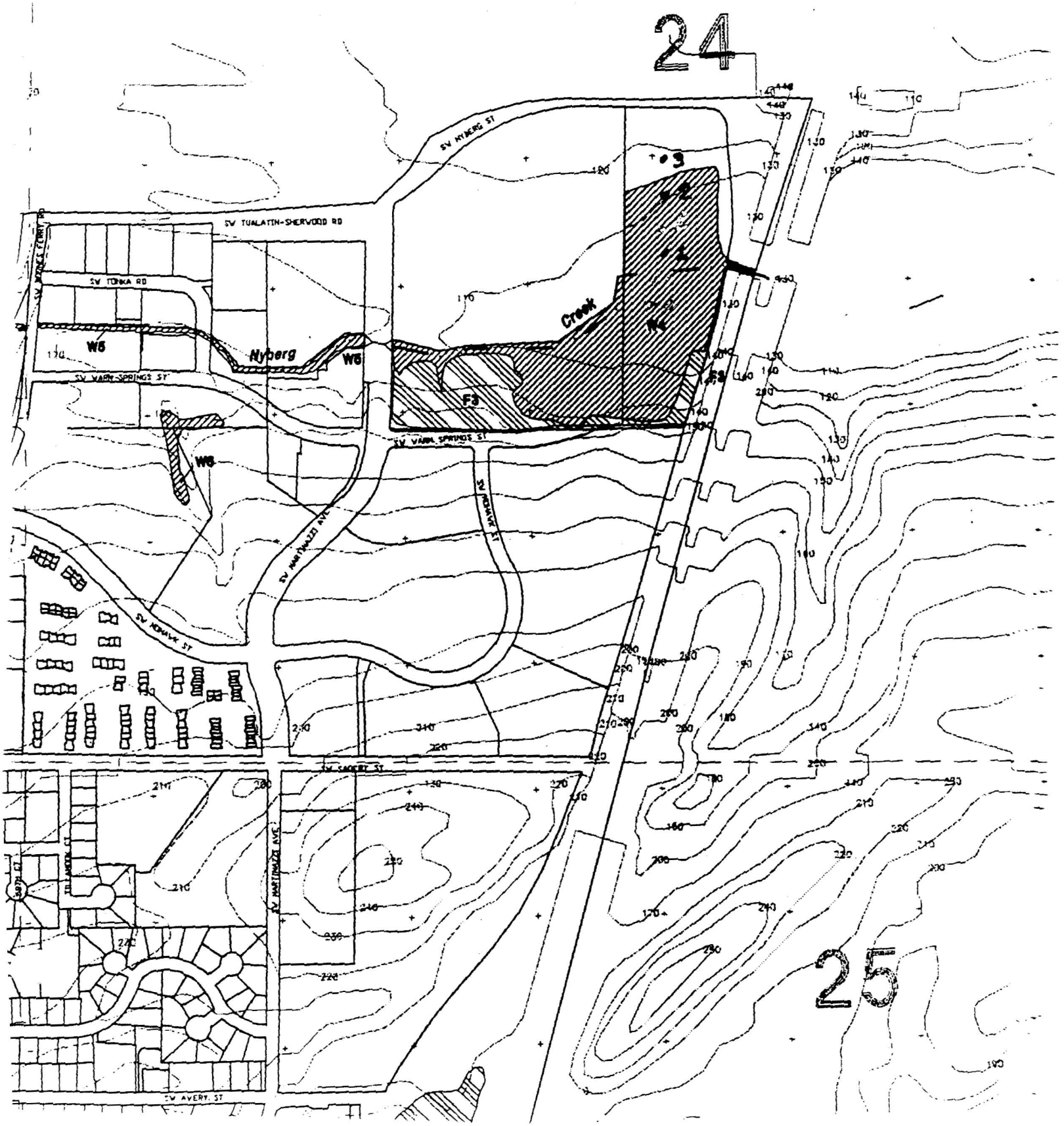
HYDROLOGY

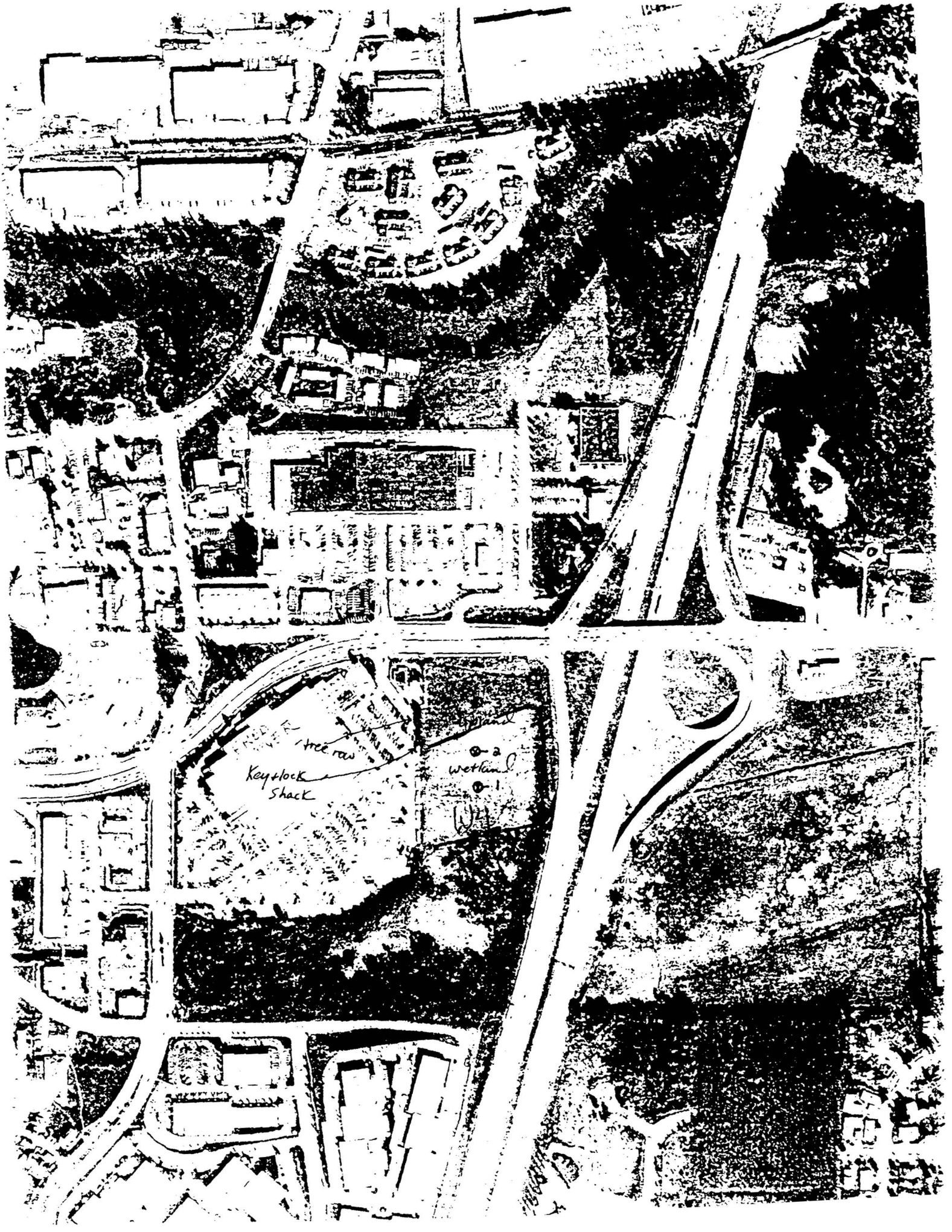
Depth of inundation: NA Depth to saturation: >16" Depth to free water: >16"

1° Indicators	2° Indicators	2° Indicators
___Inundated	___Oxidized Root Channels in upper 12"	___Local Soil Survey Data
___Saturated in upper 12"	___Water-stained leaves	___FAC-Neutral Test
___Water Marks	Recorded Data Available (aerials, gauge) ? - Explain:	
___Drift Lines	Other: upper slope of field	
___Sediment Deposits		
___Drainage Patterns	Wetland Hydrology Present? YES (NO)	

DETERMINATION: Is this plot a Wetland? YES (NO)
Comments:
Determined by: Mark Wallace *Fishman Environmental Services*

Disturbed Plot (W4)




tree row
Key+lock
Shack
wetland

APPENDIX B

Table 3. Tualatin Forest Areas, Acreage, and Environmental and Social Values Assessment

Table 4. Tualatin Meadows, Acreage, and Environmental and Social Values Assessment

Upland Summary Sheets

Table 3. Tualatin Forest Areas Acreage and Environmental and Social Values Assessment

#	Unit	Location	Acres	WH	EI	C	U	WQP	ED	REC	AQ
F1	N1	South of Nyberg Lane (W2)	2.00	H	L	H	L	M	L	L	M
F2	N2	North of Napa	2.19	H	L	H	L	M	L	L	H
F3	N3	South of Fred Myer	4.12	H	M	H	L	H	L	L	H
F4	N	Little Woodrose Park	6.27	MH	M	L	M	M	H	H	H
F5	S2	N. of I-205	10.99	MH	M	H	L	H	L	L	H
F6	S2	SW of Borland / 57th Ave	3.84	M	M	M	L	L	L	L	H
F7	S	NW of Borland / 57th Ave	4.65	L	L	L	L	L	L	L	M
F8	S3	NE of I-5 / I-205	4.38	M	M	L	L	L	L	L	H
F9	S	E of I-5	6.40	MH	H	H	L	H	L	M	H
F10	S4	SW of Blake & I-5	4.39	M	ML	L	L	L	L	L	H
F11	S	NE of Piute / Martinazzi	4.22	M	M	L	L	M	L	M	H
F12	S	I-5 / I-205 Forest : Interchange	11.96	L	L	L	L	L	L	L	H
F13	S1	Saum Cr.: Prosperity Park Rd.-Tual. River	13.06	H	M	H	L	H	L	M	H
F14	T1	NE of 50th / Wichita	1.62	H	L	H	L	H	L	L	M
F15	T1	North of Nyberg Lane	8.97	H	H	H	L	H	L	L	H
F16	T2	North of Sweetbrier Inn	8.30	H	MH	H	L	H	L	H	H
F17	T3	I-5 / Tualatin River	5.06	H	L	H	L	H	L	L	H
F18	T4	Tualatin City Park	7.18	H	M	H	L	H	H	H	H
F19	T6	NW of Jurgens Park	2.86	H	M	H	L	H	L	L	H
F20	T6	North of Hazelbrook Rd	3.63	M	L	H	L	H	L	L	H
F21	H2	S of Tualatin Rd & Tualatin Country Club	12.96	H	M	H	L	L	L	L	H
F22	H2	SE of Teton / Herman Rd.	3.78	H	M	H	M	M	L	L	H
F23	H2	NW of Teton / Manhasset	2.33	H	H	H	M	M	L	L	H
F24	H4	South of Herman Rd.	13.24	H	M	H	M	M	L	L	H
F25	C1	NW of 118th / Herman Rd.	7.90	H	MH	H	L	M	L	L	H
F26	H5	SW of Avery / Tualatin-Sherwood Rd.	8.75	MH	L	L	L	M	L	L	H
F27	H6	NW of 105th / Blake St.	5.04	H	M	M	L	H	L	L	H
F28	H7	SE of 105th / Blake St.	8.31	H	L	H	L	H	H	H	H
F29	T6	North of Tualatin Country Club	2.94	H	M	H	L	H	L	L	H
F30	L01	N. of G.I. Joes	2.17	M	L	L	L	M	L	L	H
F31	H8	North of Taylors / Ibach	1.26	M	M	L	H	M	L	M	H
F32	H9	West of 108th	68.88	H	H	H	H	H	M	L	H
F33	H9	Tonquin Area by RxR	6.71	H	H	H	H	H	L	L	H
F34	SD	SE of 108th / Ibach	10.84	M	M	L	L	L	L	M	H
F35	SD1	East of Grahams Ferry / Helenius Rd.	5.82	H	H	M	H	H	L	L	H
F36	SD1	East of Grahams Ferry / Helenius Rd.	1.85	H	M	M	H	L	L	L	H
F37	H	SW of Tualatin Rd / 108th	2.78	M	L	L	L	L	L	L	M
F38	T	NE of Hwy 99W / Tualatin Rd.	11.40	L	L	L	L	L	L	L	H
F39	S4	NE of Blake / Martinazzi	2.21	M	L	L	L	M	L	H	H
F40	H	SW of Tualatin-Sherwood Rd/Teton	2.44	L	L	L	L	L	L	L	M
F41	H	NE of Cipole / Tualatin - Sherwood Rd.	1.32	M	L	L	L	M	L	L	H
F42	T7	NE of Cipole / Hwy 99W	3.18	H	H	H	L	H	L	H	H
F43	T1-T7	Contiguous w/ Tualatin River	34.94	H	M	H	L	H	H	H	H
F44	H4	NE of Tualatin-Sherwood Rd. / Cipole Rd.	0.55	M	L	L	L	M	L	L	M
			337.69								

Table 4. Tualatin Meadows Acreage and Environmental and Social Values Assessment

#	Unit	Location	Acres	WH	EI	C	U	ED	REC	AQ
M1	T1	NE of 50th / Wichita	3.67	M	L	H	L	L	L	H
M2	H9	Tonquin Area by RxR	0.33	L	H	L	H	H	L	H
			4.00							

WH = Wildlife Habitat
EI = Ecological Integrity
C = Connectivity
U = Uniqueness
WQP = Water Quality Potential
ED = Education Potential
REC = Recreation
AQ = Aesthetic Quality

UPLAND RESOURCE SUMMARY SHEET

UNIT: N1 **UPLAND:** F1	**Type:** Deciduous, Riparian		**Field Date:** 4-19-95
Location: south of Nyberg Ln	**Acres:** 2.0	**Adj. Land Use:** Res., Hospital, Vacant Retirement Home	
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19 **Quarter:** SW	**Map No:** 5023	**Aerial:** 3

GENERAL DESCRIPTION: F1 is a deciduous riparian woodland located on a moderate north facing slope south of W2, a large emergent marsh. Vegetation is dominated by big leaf maple, cherry, red hawthorn, and Himalayan blackberry. This riparian community provides some food and cover opportunities for wildlife. However, Himalayan blackberry reduces wildlife habitat value due to its dominance and replacement of native species.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* cherry	* Himalayan blackberry	
* big leaf maple	* red hawthorn	
red alder	English holly	
black cottonwood	Western hazelnut	

Features: Nyberg Creek and associated wetlands to the north provide a water source for wildlife. A jogging/walking trail is located immediately to the south and is frequented by local residents.

Impacts: Invasive non-native species (Himalayan blackberry and red hawthorn) are dominant on the southern margins.

UPLAND RESOURCE SUMMARY SHEET

UNIT: N2 **UPLAND:** F2	**Type:** Deciduous, Riparian		**Field Date:** 4-19-95
Location: E of I-5, N of Napa Dr	**Acres:** 2.19	**Adj. Land Use:** Vac. (future office), High-density residential	
Beaverton Quadrangle T2S R1W **Sec.:** 24 **Quarter:** SE		**Map No:** 5022	**Aerial:** 2

GENERAL DESCRIPTION: F2 is a small deciduous riparian corridor located on a short drainage of Nyberg Creek. Vegetation is dominated by red alder and Himalayan blackberry. The forest is connected to Nyberg Creek wetland areas and provides important habitat for some wildlife species that utilize the creek and wetlands for water and the forest for food and cover. However, the dominance of Himalayan blackberry reduces wildlife habitat value.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* red alder	* Himalayan blackberry	lady fern
big leaf maple		sword fern
cherry		
western red cedar		

Features: Intermittent drainage to Nyberg Creek; connected to Nyberg Creek and associated wetlands

Impacts: Invasive non-native Himalayan blackberry dominates the understory limiting food and cover for wildlife.

UPLAND RESOURCE SUMMARY SHEET

UNIT: N3 **UPLAND:** F3	**Type:** Deciduous, Riparian		**Field Date:** 4-19-95
Location: south of Fred Meyers	**Acres:** 4.12	**Adjacent Land Use:** Commercial	
Beaverton Quadrangle T2S R1W **Sec.:** 24 **Quarter:** SW		**Map No:** 5021	**Aerial:** 2

GENERAL DESCRIPTION: F3 is located south of Nyberg Creek between Martinazzi and I-5, extending from the creek bottom south to the north-facing slope adjacent to SW Warm Springs Ave.. Vegetation in the northwest corner is dominated by Himalayan blackberry with red elderberry and red hawthorn on the steep slopes. To the south canopy species are diverse including red alder, big leaf maple, black cottonwood, cherry, Douglas fir, and western red cedar and numerous snags. This riparian zone helps buffer the wetlands and Nyberg Creek to the north from commercial uses to the south. Riparian vegetation also helps maintain water quality protection by stabilizing slopes and preventing erosion.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* red alder	* Himalayan blackberry	English ivy
Douglas fir	red hawthorn	
black cottonwood	red elderberry	
cherry		
big leaf maple		
western red cedar		

Features: Wildlife Habitat: Numerous snags; fallen black cottonwood due to beaver. Riparian zone provides food, cover, and nesting opportunities for a variety of wildlife. Mallard, woodduck, pine siskin, red-tailed hawk, scrub jay, rufous sided towhee, American goldfinch, black-capped chickadee, crow, and signs of beaver and coyote were observed. Aesthetics: limited garbage, view shed of I-5.

Impacts: Invasive Himalayan blackberry is dominant on the northwest end reducing vegetation diversity in that area. Beaver have built at least 2 dams across the stream that have caused flooding of a strip of red alder trees that may not survive the increased inundation. These trees as well as black cottonwood along the stream may be "harvested" by the beaver and potentially could fall in Fred Meyer's parking lot.

UPLAND RESOURCE SUMMARY SHEET

UNIT: N **UPLAND:** F4	**Type:** Coniferous	**Field Date:** 4-19-95
Location: NE of Boones F./Killarney Ln	**Acres:** 6.27	**Adj. Land Use:** Residential
Sherwood Quadrangle T2S R1W **Sec.:** 26 **Quarter:** SE		**Map No:** 5220 **Aerial:** 5

GENERAL DESCRIPTION: F4 (Little Woodrose Park) is a large isolated coniferous woodland located northeast of Boones Ferry/Killarney Ln. The woodland contains a central depression area but no wetlands. The canopy is dominated by Douglas fir, western red cedar, and cherry. The shrub understory is dominated by red elderberry, wild rose, and western hazelnut. Groundcover is rich with a variety of forbs and English ivy. The park is maintained by the Tualatin Rotary, Boy Scout Troop No. 35, and the City of Tualatin. Soft path trails wind through the park with access at the east and west ends. Portions of the park have been planted recently with native trees and shrubs. F4 provides an aesthetic value to the surrounding neighborhood as well as the entire community; it is within the view shed of Boones Ferry Road. It also provides educational opportunities for small groups like the Boy Scouts. Safe access is a problem for large groups. Large patches of English ivy should be removed to improve wildlife habitat.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	* red elderberry	* trillium
* western red cedar	* wild rose	* cleavers
* cherry	* western hazelnut	* Robert's geranium
black cottonwood	* cherry	* English ivy (in pockets)
Pacific dogwood	snowberry	sword fern
	oceanspray	bracken fern
	Oregon grape	vanilla leaf
	salal	duckfoot
	red flowering currant	
	red hawthorn	
	English holly	

Features: Wildlife habitat: Large downed woody debris is common. Recreation: A soft path trail winds throughout the park with entrances located on east and west ends.

Impacts: Invasive non-native English ivy is dominant in portions of the park; English ivy should be removed in the fall to prevent injury to soil and native wildflowers (i.e. trillium). Yard debris piles occur behind some residences; also sawed up brush piles from blowdown are present and should be removed.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S2 **UPLAND:** F5 **Type:** Deciduous/Coniferous Riparian **Field Date:** 4-20-95

Location: N. of I-205 between 65th & Prosperity Park **Acres:** 10.99 **Adj. Land Use:** Res., vacant

Lake O & Canby Quad. T2S R1W **Sec.:** 30 **Quarter:** N **Map No:** 5123, 5124 **Aerial:** 6

GENERAL DESCRIPTION: Access was denied on most of F5. This description is based on the Resource Company's report for the Lee's Subdivision and observations from I-205 and Prosperity Park Road. F5 contains a maturing forest canopy on moderate hillslopes adjacent to Saum Creek. Vegetation is dominated by Grand fir, Douglas fir, and Big-leaf maple. The shrub understory is dominated by snowberry and himalayan blackberry. The snowberry is found in scattered pockets. The riparian woodland provides water quality protection and also buffers freeway noise. Wildlife attracted to the stream find food and cover resources in the adjacent woodland.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
grand fir	Himalayan blackberry	sword fern
Douglas fir	snowberry (scattered)	orchard grass
big-leaf maple	beaked hazelnut	creeping buttercup
red alder	thimbleberry	clover
western red cedar		common dandelion
		English ivy

Features: Trees help protect water quality and provide a sound barrier to help buffer freeway noise. View shed of I-205. Important food and cover for wildlife using wetlands.

Impacts: Noise and isolation caused by I-205.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S2 **UPLAND:** F6 **Type:** Coniferous **Field Date:** 4-20-95

Location: SW of Borland Road/57th Ave. **Acres:** 3.84 **Adjacent Land Use:** Agricultural Vacant

Lake Oswego Quad. T2S R1W **Sec.:** 19 **Quarter:** SW **Map No:** 5023 **Aerial:** 3

GENERAL DESCRIPTION: F6 is located south of Borland Road and connects with the Saum Creek corridor via a narrow band of trees. Topography is flat to moderately sloped. Douglas fir towers above other species. The shrub understory is limited due to the dense canopy and/or past clearing. The understory is diverse. Access was denied on this property which was observed from Borland Road.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (3'dbh)	red elderberry	sword fern
western flowering dogwood		Pacific waterleaf
Oregon ash		white trillium
cherry		stinging nettle
big-leaf maple		English ivy
		Siberian springbeauty
		red dead-nettle
		grasses

Features: Maturing Douglas fir.

Impacts: pockets of English ivy.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S	**UPLAND:** F7	**Type:** Deciduous/Coniferous	**Field Date:** 4-20-95
Location: NW of Borland Rd/57th Ave		**Acres:** 4.65	**Adj. Land Use:** Res., Hospital Campus
Lake Oswego Quad.T2S R1W **Sec.:**19 **Quarter:** SW			**Map No:**5023 **Aerial:** 3

GENERAL DESCRIPTION: F7 is a fragmented forest remnant nearly surrounded by residential development. Topography is flat to gently sloped. The mixed deciduous/coniferous canopy consists of Douglas fir and red alder. A central depression area is an impenetrable thicket of Himalayan blackberry. Vegetation lacks diversity. The canopy provides shade for adjacent residences and food and cover for resident and migratory avian species.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
Douglas fir	* Himalayan blackberry	
red alder	beaked hazelnut	

Features: Shade for neighborhood.

Impacts: Severely disturbed by invasive Himalayan blackberry.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S3	**UPLAND:** F8	**Type:** Deciduous/Coniferous	**Field Date:** 4-24-95
Location: Northeast of I-5/I-205		**Acres:** 4.38	**Adjacent Land Use:** Residential Church campus, pre-school
Sherwood/Beav. Quadrangles T2S R1W **Sec.:** 25 **Quarter:** NW		**Map No:** 5121	**Aerial:** 6

GENERAL DESCRIPTION: F8 is located northeast of the I-205/I-5 interchange. The mixed deciduous/coniferous canopy is dominated by Douglas fir and red alder. The understory is dominated by a variety of native shrubs and herbs including Indian plum, Oregon grape, red elderberry, duckfoot, wood violet, waterleaf, and sword fern. Adjacent residents have dumped yard debris into the forest margins. There are low use trails in the forest too. This site provides wildlife habitat and is rated high for aesthetics due to its scenic qualities as viewed from the freeway and neighborhood, and as a noise and visual buffer between the freeway and residences.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
Douglas fir (3' dbh)	Himalayan blackberry	white inside-out flower
red alder	(pockets)	stinging nettle
Pacific dogwood	red hawthorn	Pacific waterleaf
big leaf maple	Oregon grape	slender toothwort
	Indian plum	Dewey's sedge
	red elderberry	Siberian springbeauty
	woods rose	sword fern
	English holly	white trillium
		stream violet
		English ivy

Features: View shed of I-205/I-5

Impacts: Yard debris from residents; limited garbage. Freeway noise.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S	**UPLAND:** F9	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 5-3-95
Location: East of I-5		**Acres:** 6.4	**Adjacent Land Use:** Rural Res., I-5
Sherwood Quadrangle	T2S R1W **Sec.:** 25 **Quarter:** SW		**Map No:** 5221 **Aerial:** 5

GENERAL DESCRIPTION: F9 is a mixed multi-layered, multi-aged deciduous/coniferous forest located adjacent to I-5. It is located in the Saum Creek drainage basin. Vegetation is diverse and ecological integrity is high. Although it is contiguous with a stream corridor that is outside the Urban Growth Boundary (UGB), it is isolated from natural resources within the UGB. Topography is flat to gently sloping.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (3'+dbh)	* red elderberry	* Siberian springbeauty
* red alder	rose	catchweed bedstraw
cherry	Saskatoon serviceberry	trillium
western flowering	Oregon grape	Pacific waterleaf
dogwood	vine maple	bracken fern
big-leaf maple	thimbleberry	sword fern
	beaked hazelnut	
	snowberry	

Features: Helps buffer freeway noise.

Impacts: Noisy due to I-5, Mt. Bike Loop Trail.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S4	**UPLAND:** F10	**Type:** Deciduous/Coniferous	**Field Date:** 4-4-95
Location: SW of Chieftain/Dakota Greenway & I-5		**Acres:** 4.39	**Adj. Land Use:** I-5, Res.
Sherwood Quad. T2S R1W **Sec.:** 25 **Quarter:** SW		**Map No:** 5221	**Aerial:** 5

GENERAL DESCRIPTION: F10 is located south of the east end of the Chieftain Dakota Greenway (W11) and west of I-5. The mixed deciduous/coniferous forest is dominated by big leaf maple and Douglas fir. The shrub understory is dominated by red elderberry with pockets of Himalayan blackberry. Groundcover is dominated by waterleaf, trillium, cleavers, sword fern, nettle, and pockets of English ivy. Its location adjacent to I-5 isolates it from other natural areas and reduces its wildlife habitat value. It is contiguous to Dakota Creek which provides refreshment for wildlife inhabiting the forest. The forest provides an aesthetic view from I-5 and adjacent residences. It also helps buffer freeway noise for residents to the west.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* big leaf maple	* Himalayan blackberry	* trillium
* Douglas fir	* red elderberry	* slender-stemmed water leaf
	rose	* sword fern
		* English ivy (in patches)
		Henderson's sedge
		cleavers
		stinging nettle
		duck foot
		reed canarygrass

Features: Wildlife habitat: large snags (≈ 18in. dbh), downed large woody debris common. Adjacent to W11. Habitat value reduced due to proximity of I-5. Aesthetic: view shed of I-5; noise buffer between I-5 and residences to the west.

Impacts: I-5 noise and vibrations.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S	**UPLAND:** F11	**Type:** Deciduous/Coniferous	**Field Date:** 4-5-95
Location: NE of Piute/Martinazzi	**Acres:** 4.22	**Adjacent Land Use:** Residential, I-5	
Sherwood Quadrangle T2S R1W **Sec.:** 25 **Quarter:** NW		**Map No:** 5121	**Aerial:** 5

GENERAL DESCRIPTION: F11 is an isolated mixed deciduous/coniferous forest surrounded by residential development and I-5. It is located in the Saum Creek drainage basin. The center of the site is in a depression and vegetation is dominated by deciduous trees (cherry, red alder, big leaf maple). The hillslopes surrounding the depression are forested with Douglas fir. Common shrub species include red elderberry, western hazelnut, and rose. Groundcover is dominated by sword fern and a diverse assemblage of wildflowers including duckfoot, trillium, spring beauty, wood violet, and water leaf. Plant diversity provides food for a variety of wildlife. The multi-age and multi-layered structure of the forest provides diverse cover for wildlife. Large pockets of English ivy and periwinkle are present but could easily be removed. Vegetation in the east end has been disturbed; Himalayan blackberry is dominant. This portion of the site should be replanted with native species after the blackberry is controlled.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	red elderberry	sword fern
red alder	western hazelnut	Robert's geranium
black cottonwood	Oregon grape	English ivy
cherry	English holly	trillium
willow	snowberry	duckfoot
big leaf maple	rose	cleavers
	Himalayan blackberry	water leaf
		wood violet
		hedge nettle
		periwinkle
		spring beauty
		star-flowered solomon's seal
		false solomon's seal

Features: Aesthetics: neighborhood. Wildlife habitat for songbirds and other small wildlife species

Impacts: Adjacent to Interstate-5. Invasive Himalayan blackberry on east end and pockets of English ivy in forest. Yard debris dumped behind some residences. The National Wetland Inventory mapped a wetland within the forest; it might have been filled when the adjacent apartments to the north were built in 1989.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S	**UPLAND:** F12	**Type:** Deciduous/Coniferous	**Field Date:** 4-4-95
Location: Interstate 5		**Acres:** 11.96	**Adjacent Land Use:** I-5
Sherwood Quadrangle	T2S R1W **Sec.:** 25 **Quarter:** NW		**Map No:** 5121 **Aerial:** 5

GENERAL DESCRIPTION: F12 includes two forest remnants isolated and surrounded by I-5/I-205 interchange. Vegetation as viewed from nearby safe vantage points includes Douglas fir, cherry, Pacific dogwood, red alder, scouler's willow, salal, snowberry, and sword fern. The western island is dominated by coniferous trees and the eastern island is dominated by deciduous trees. Soils were sampled on the eastern site to determine if wetlands were present due to the abundance of nettle and alder, but they were not hydric. The site provides limited environmental value but is aesthetic and can be viewed by motorists on Interstate-5.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
cherry	salal	sword fern
big leaf maple	snowberry	stinging nettle (east island)
Douglas fir	Scouler's willow	Siberian springbeauty
Pacific dogwood	Himalayan blackberry	
red alder		

Features: View shed of I-5/I-205 interchange.

Impacts: I-5, I-205.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S1	**UPLAND:** F13	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-20-95
Location: Prosperity Park Rd. to Tualatin River		**Acres:** 13.06	**Adj. Land Use:** Rural, Res.
Lake Oswego Quadrangle	T2S R1W **Sec.:** 20	**Quarter:** SW	**Map No:** 5025 **Aerial:** 3

GENERAL DESCRIPTION: F13 is a mixed deciduous/coniferous riparian forest adjacent to lower Saum Creek. Vegetation is dominated by red alder and big leaf maple. In most of this reach upland woodlands are confined to moderate hillslopes above the stream. Dense residential development occurs at the top of western hillslope. At the mouth of Saum Creek the forest broadens. Access was limited due to residential development. Observations were recorded from the north end, Borland Road and Prosperity Park Road. Acreage increases to 27.89 acres including lands inside and outside of the UGB.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* big-leaf maple	* red elderberry	Pacific waterleaf
* red alder	* Indian plum	fringecup
Douglas fir	* Himalayan blackberry	English ivy
western red cedar	vine maple	
	ornamental hawthorn	

Features: It is important to preserve hillslope forest vegetation to prevent erosion and protect water quality of Saum Creek.

Impacts: Invasive Himalayan blackberry and English ivy.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T1	**UPLAND:** F14	**Type:** Deciduous Riparian	**Field Date:** 4-19-95
Location: NE of 50th Ave/Wichita St.		**Acres:** 1.62	**Adjacent Land Use:** Residential
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19 **Quarter:** N	**Map No:** 5024	**Aerial:** 3

GENERAL DESCRIPTION: F14 is contiguous with F15 and M1, but different in character. Vegetation is dominated by young cherry and big leaf maple trees. The understory contains a mix of native and non-native species. Topography is a moderate to steep slope down to the Tualatin River floodplain. A sewer pump station is located adjacent and north of F14 and residential development occurs to the south.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* cherry	* Himalayan blackberry	* sword fern
* big-leaf maple	* red elderberry	* fringecup
Douglas fir	ornamental hawthorn	* English ivy
red alder	Pacific blackberry	Dewey's sedge
	oceanspray	

Features: contiguous with F15 and M1.

Impacts: There are pockets of English ivy and Himalayan blackberry.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T1	**UPLAND:** F15	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-19-95
Location: North of Nyberg Lane		**Acres:** 8.97	**Adjacent Land Use:** Residential
Lake Oswego Quadrangle T2S R1W **Sec.:** 19 **Quarter:** N		**Map No:** 5024	**Aerial:** 3

GENERAL DESCRIPTION: F15 is a mixed coniferous/deciduous riparian woodland located adjacent to the Tualatin River. Vegetation is dominated by Douglas fir, cherry, hazelnut, red elderberry, snowberry, sword fern, fringecup, and waterleaf. There are pockets of English ivy and Himalayan blackberry is dense in some forest margins. The forest is generally in excellent condition with a dominance of diverse native species. The woodland shades the river and helps protect and maintain water quality. It also provides food and cover opportunities for wildlife. F15 includes two wetlands (W12, W13). A residence is located adjacent to the W12 wetland. Residential property is located adjacent and south of F15. Topography is flat to moderately sloped.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (3.5′ dbh)	* beaked hazelnut	* sword fern
* cherry	* red elderberry	* fringecup
big-leaf maple	* snowberry	* Pacific waterleaf
western flowering dogwood	Oregon grape	Dewey's sedge
red alder	Indian plum	white trillium
Prunus sp.	cascara	giant trillium
	red hawthorn	starry false Solomon's seal
	Pacific blackberry	American false hellebore
	vine maple	slender toothwort
	oceanspray	pockets of ivy, Himalayan blackberry

Features: Snags and downed large woody debris present. F15 includes two wetlands (W12, W13) and is adjacent to the Tualatin River.

Impacts: There are pockets of English ivy and Himalayan blackberry but excellent native vegetation beneath them.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T2	**UPLAND:** F16	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-24-95
Location: North of Sweetbrier Inn		**Acres:** 8.3	**Adj. Land Use:** Res., Commercial, I-5
Lake Oswego Quadrangle	T2S R1W **Sec.:** 24 **Quarter:** NE	**Map No:** 4922	**Aerial:** 3

GENERAL DESCRIPTION: F16 is located southeast of I-5/Tualatin River. It is a large mixed deciduous/coniferous riparian woodland. The multi-layered canopy is dominated by Douglas fir and big leaf maple. The understory is dominated by snowberry, sword fern, and geranium with small pockets of Himalayan blackberry. The woodland helps maintain water quality protection by shading the river and stabilizing slopes and banks. It provides food, nesting, and cover resources for wildlife adjacent to the river. A soft trail winds through the forest and along the river.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	* snowberry	* sword fern
* big-leaf maple	* Himalayan blackberry	* shining crane's-bill
western red cedar	poison oak	wild strawberry
western flowering dogwood	beaked hazelnut	Siberian springbeauty
Oregon ash	tall Oregon grape	miner's lettuce
grand fir	oceanspray	stinging nettle
	mock orange	stream violet
		fringecup
		white inside-out flower
		white trillium

Features: Excellent connectivity with Tualatin River; view shed of I-5; contiguous with W15 and W16. Important link between W15 and river. Trail through forest and along the river.

Impacts: Pockets of dense Himalayan blackberry.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T3	**UPLAND:** F17	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 5-16-95
Location: SW of I-5/Tualatin River	**Acres:** 5.06	**Adj. Land Use:** Com; Res. north of river	
Beaverton Quad. T2S R1W **Sec.:** 24 **Quarter:** NE		Map No: 4922	**Aerial:** 3

GENERAL DESCRIPTION: F17 is located southwest of I-5/Tualatin River. This small mixed deciduous/coniferous riparian woodland provides food and cover resources for wildlife although it is adjacent to a noisy major freeway. Access was limited on-site due to the presence of transients.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
cherry	Saskatoon serviceberry	meadow foxtail
big-leaf maple	snowberry	
Douglas fir	ornamental hawthorn	

Features: Tualatin River; view shed of I-5.

Impacts: Transient dwelling.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T4	**UPLAND:** F18	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-15-95
Location: Tualatin Community Park	**Acres:** 7.18		**Adj. Land Use:** Park, Res, Com; Ind. north of river
Beav. Quad T2S R1W **Sec.:** 13, 24 **Quarter:** SW, NW			**Map No:** 4821,4921 **Aerial:** 2

GENERAL DESCRIPTION: F18 is located in Tualatin Community Park adjacent to the Tualatin River. This mixed deciduous/coniferous riparian woodland is multi-layered and multi-aged with a variety of structure in the canopy and on the forest floor. Canopy vegetation is dominated by Douglas fir (3 ft+ dbh) and big leaf maple. The understory is dominated by Indian plum, snowberry, sword fern, wood violet and pockets of English ivy and Himalayan blackberry. The forest provides excellent food, cover, and nesting resources for wildlife. It is also a high use passive recreation area. A soft path winds through the forest and is used by pedestrians, joggers, and bicyclists.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (3' dbh)	* Himalayan blackberry	* ivy
* big-leaf maple	* Indian plum	* stream violet
cherry	* snowberry	* sword fern
grand fir	beaked hazelnut	fringecup
Oregon ash	salal	starry false Solomon's seal
Scouler willow	vine maple	feather false Solomon's seal
apple	red elderberry	white trillium
yew	English holly	white inside-out flower
	red hawthorn	wild ginger
	wild rose	Pacific waterleaf
	fairy lanterns	Dewey's sedge
	Oregon grape	vanilla leaf
	salmonberry	stinging nettles
	ninebark	grass
	Scot's broom	cleavers

Features: High aesthetics, recreation, education potential, wildlife habitat for resident and migrant birds and a variety of other small wildlife species. Water quality protection.

Impacts: Pockets of English ivy; Himalayan blackberry is dense on the north end; other invasives such as English holly, red hawthorn, and Scot's broom are also present.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T6	**UPLAND:** F19	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 5-10-95
Location: NW of Jurgens Park	**Acres:** 2.86	**Adjacent Land Use:** Residential, Agricultural	
Beaverton Quad T2S R1W **Sec.:** 15 **Quarter:** NE, SE	**Map No:** 4718, 4818	**Aerial:** 1	

GENERAL DESCRIPTION: F19 is a mixed deciduous/coniferous woodland located adjacent to the Tualatin River. The large forest remnant is multi-layered and multi-aged and supports a variety of food and cover resources for wildlife. Ecological integrity is high even though there are pockets of English ivy and Himalayan blackberry. The forest is also contiguous to a forested and emergent wetland to the south and pasture land to the west.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
Douglas fir	thimbleberry	sword fern
big-leaf maple	snowberry	Dewey's sedge
black cottonwood	ocean spray	white trillium
Oregon ash	rose	stream violet
Oregon white oak	Pacific ninebark	starry false Solomon's seal
	trumpet honeysuckle	fringecup
	poison oak	white inside-out flower
	beaked hazelnut	English ivy
	salal	
	English holly	
	Himalayan blackberry	

Features: Adjacent to wetlands (W21) and the Tualatin River; large size, rich species diversity, in viewshed of river, aesthetic.

Impacts: Limited

UPLAND RESOURCE SUMMARY SHEET

UNIT: T6	**UPLAND:** F20	**Type:** Coniferous Riparian	**Field Date:** 5-10-95
Location: North of Hazelbrook Rd	**Acres:** 3.63	**Adjacent Land Use:** Residential, Agricultural	
Beaverton Quadrangle T2S R1W **Sec.:** 15 **Quarter:** SE		**Map No:** 4818	**Aerial:** 1

GENERAL DESCRIPTION: F20 is a small coniferous woodland located adjacent to the Tualatin River. The canopy is dominated by maturing Douglas fir. The understory is grazed and contains limited cover.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	Indian plum	Siberian springbeauty
western red cedar	thimbleberry	fringecup
grand fir		sword fern
big-leaf maple		crane's-bill
		stream violet

Features: Adjacent to the Tualatin River (increases wildlife habitat value, aesthetic [viewshed], and connectivity).

Impacts: Pasture for cattle.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H2	**UPLAND:** F21	**Type:** Deciduous/Coniferous	**Field Date:** 4-10-95
Location: South of Tualatin Rd.		**Acres:** 12.96	**Adjacent Land Use:** Golf, Res., Ind.
Beaverton Quadrangle	T2S R1W **Sec.:** 23 **Quarter:** NE	**Map No:** 4920	**Aerial:** 2

GENERAL DESCRIPTION: F21 is a mixed deciduous/coniferous woodland located between the Park Square Apartments and Durametal, south of the Tualatin Country Club. This forest is bisected by roadway for SW 90th Ave.. The forest canopy is dominated by Douglas fir, Oregon white oak, and a pocket of Oregon ash. The shrub understory of the east half of the forest has been cleared. Numerous weeds such as thistle, cleavers, and Himalayan blackberry are spreading into these disturbed areas. The west half of the forest has maintained fairly natural conditions with an understory of wood violet, star-flowered solomon seal and trillium.

Dominant Vegetation (* major dominant):

Trees	Shrubs (< 12in tall, mostly sprouts from mowed bases.)	Herbaceous
* Douglas fir		white trillium
* Oregon white oak		common thistle
* Oregon ash	red elderberry	fringecup
cherry or plum	snowberry	sword fern
Scouler willow	Indian plum	catchweed bedstraw
cascara	Scouler willow	wild strawberry
	cascara	Canada thistle
	beaked hazelnut	starry false Solomon's seal
	serviceberry	feather false Solomon's seal
	poison oak	slender toothwort
		white inside-out flower
		false hellebore
		small-flowered nemophila

Features: Aesthetics: view-shed of Tualatin Rd; a noise buffer separating Tualatin-Sherwood Road from residential development to the north. Wildlife habitat: upland forest habitat in the vicinity of a large wetland.

Impacts: Shrub clearing described above.

Conflicts: a road will be constructed north/south across the forest between the entrance to Tualatin Country Club and Tualatin-Sherwood Road.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H2	**UPLAND:** F22	**Type:** Deciduous/Coniferous Riparian		**Field Date:** 5-15-95
Location: Southeast of Teton/Herman Road		**Acres:** 3.78	**Adjacent Land Use:** Industrial	
Beaverton Quadrangle	T2S R1W **Sec.:** 23 **Quarter:** SW		**Map No:** 5019	**Aerial:** 2

GENERAL DESCRIPTION: F22 is a mixed deciduous/coniferous woodland located north of the Hedges Creek corridor in the Wetland Protection District and east of industrial development. The canopy is dominated by Douglas fir. The multi-layered understory is dominated by bald hip rose, hazelnut, and snowberry, and supports a variety of wildflowers. There are also pockets of English ivy. F22 provides important food and cover resources for wildlife that find refreshment in Hedges Creek.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (2.5' dbh)	* wood rose	fringecup
Oregon ash	* beaked hazelnut	catchweed bedstraw
ponderosa pine	* snowberry	sword fern
Oregon white oak	Saskatoon serviceberry	Siberian springbeauty
big-leaf maple	ocean spray	English ivy
cherry	Oregon grape	Melica grass
	poison oak	
	Pacific blackberry	
	cascara	
	mock orange	
	gooseberry	

Features: contiguous with W23; provides important food and cover resources for wildlife.

Impacts: Pockets of English ivy.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H2	**UPLAND:** F23	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-10-95
Location: NW of Teton Road/Manhasset Dr.		**Acres:** 2.33	**Adj. Land Use:** Industrial, WPA
Beaverton Quadrangle	T2S R1W **Sec.:** 22 **Quarter:** SE	**Map No:** 5018	**Aerial:** 1

GENERAL DESCRIPTION: F23 is a mixed deciduous/coniferous woodland located south and adjacent to Pascuzzi Pond. It is multi-layered, multi-aged, and rich with native species. Douglas fir and Oregon white oak dominate the canopy. The shrub understory is diverse and ground cover is dominated by western trillium, duckfoot, and miner's lettuce. A cluster of sessile trillium was also present. The woodland provides food, cover, and nesting opportunities for a variety of wildlife. Water is available in the adjacent wetlands. A mallard nest, a variety of songbirds, and a flicker were observed. The woodland provides a critical buffer between industrial development to the south and the wetlands to the north.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (≈18 in. dbh)	poison oak	* western trillium
* oak	ocean spray	* duck foot
black cottonwood	twinberry	* miner's lettuce
Oregon ash	mock orange	sword fern
	tall Oregon grape	sessile trillium
	red hawthorn	iris
	English holly	star-flowered solomon seal
	Indian plum	false solomon's seal
	cascara	sweet pea
	snowberry	grass
	Himalayan blackberry	
	western hazelnut	
	bald hip rose	

Features: Snags and downed woody debris present; nest boxes for wood ducks near edge of forest. Critical buffer between wetlands and industrial development. High wildlife habitat values. High aesthetics.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H4	**UPLAND:** F24	**Type:** Deciduous/Coniferous Riparian		**Field Date:** 4-10-95
Location: South of Herman Road		**Acres:** 13.24	**Adjacent Land Use:** Industrial, Agricultural	
Beaverton Quadrangle	T2S R1W **Sec.:** 22	**Quarter:** SE	**Map No:** 5018	**Aerial:** 1

GENERAL DESCRIPTION: F24 includes four patches of mixed deciduous/coniferous riparian woodland. The site was observed from the north and east since access was denied. The multi-layered, multi-aged forest is interspersed with forested and emergent wetlands providing food and cover resources for wildlife.

Dominant Vegetation (* major dominant):

note: no access; observed from adjacent properties.

Trees	Shrubs	Herbaceous
Douglas fir	Indian plum	sword fern
*Oregon white oak	rose	common camas
Oregon ash	Saskatoon serviceberry	
red alder	Himalayan blackberry	
cherry		
apple		

Features: High wildlife habitat values; contiguous to W35

Impacts: Cattle grazing

UPLAND RESOURCE SUMMARY SHEET

UNIT: C1	**UPLAND:** F25	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-25-95
Location: Northwest of 118th/Herman Rd		**Acres:** 7.90	**Adjacent Land Use:** Industrial
Beav. Quadrangle	T2S R1W **Sec.:** 22 **Quarter:** SW	**Map No:** 5017	**Aerial:** 1

GENERAL DESCRIPTION: F25 is a mixed deciduous/coniferous multi-layered woodland centered in a large wetland complex. Dominant vegetation includes Douglas fir, cherry, Oregon grape, sword fern, and solomon's seal. Multi-layered woodland supports diverse vegetation. The east half of this unit has high ecologic integrity. Interspersion of upland forest habitat with surrounding wetlands contributes to wildlife values.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	* Oregon grape	* sword fern
* cherry	Scouler willow	* starry false Solomon's seal
Oregon white oak	Nootka rose	white trillium
western flowering dogwood	cascara	white inside-out flower
	beaked hazelnut	fringecup
	Himalayan blackberry	giant fawn-lily
	Pacific ninebark	bracken fern
	poison oak	
	mock orange	
	snowberry	
	thimbleberry	
	salal	
	Saskatoon serviceberry	
	Indian plum	

Features: High wildlife habitat and connectivity. Large wetland/upland area, high interspersion.

Impacts: Noise from 99W and Grimm's Fuel Co.

Conflicts: A proposed roadway (124th) will separate forest from wetlands and impact wildlife habitat and the uniqueness of this site if it is built.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H5 **UPLAND:** F26 **Type:** Deciduous/Coniferous Riparian **Field Date:** 4-24-95

Location: SW of Avery/Tualatin-Sherwood Rd. **Acres:** 8.75 **Adj. Land Use:** Industrial, Agr.

Sherwood Quadrangle T2S R1W **Sec.:** 27 **Quarter:** NE **Map No:** 5118 **Aerial:** 4

GENERAL DESCRIPTION: F26 is a multi-aged deciduous/coniferous riparian woodland. Vegetation is diverse although the shrub-layer is limited to approximately 10% cover. Dominant species include Douglas fir, waterleaf, and English ivy. F26 provides high wildlife habitat value due to its location adjacent to Hedges Creek. It provides a variety of food and cover resources. Wildlife habitat would improve with removal of English ivy since its presence reduces vegetation species diversity.

Dominant Vegetation (* major dominant):
note: no access western half of site.

Trees	Shrubs	Herbaceous
* Douglas fir	red elderberry	* Pacific waterleaf
cherry	tufted hairgrass	* English ivy
western flowering	beaked hazelnut	stinging nettle
dogwood	thimbleberry	white inside-out flower
big-leaf maple	ocean spray	white trillium
red alder	English holly	sword fern
	Himalayan blackberry	bracken fern
	fairy lantern	

Features: Contiguous with Hedges Creek (W24); High Wildlife Habitat value: provides food and cover for wildlife adjacent to a permanent water source.

Impacts: Noisy industrial fans; pockets of English ivy throughout forest become densest near stream.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H6	**UPLAND:** F27 **Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-26-95
Location: NW of 105th/Blake St	**Acres:** 5.04	**Adj. Land Use:** Residential, Industrial
Sherwood Quad T2S R1W **Sec.:** 26/27 **Quarter:** SW/SE	**Map No:** 5218/5219	**Aerial:** 5

GENERAL DESCRIPTION: F27 is a mixed deciduous/coniferous riparian woodland. The multi-aged and multi-layered canopy provides a variety of food and cover for wildlife adjacent to Hedges Creek.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	* Himalayan blackberry	* English ivy
* big-leaf maple	Indian plum	white inside-out flower
red alder	snowberry	Siberian springbeauty
madrone	Oregon grape	sword fern
western flowering dogwood	thimbleberry	white trillium
cherry	English holly	sweet cicely
	beaked hazelnut	stream violet
		fringecup

Features: High wildlife habitat (large size, contiguous with stream)

Impacts: Invasive species in forest margins and in pockets within woodland.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H7	**UPLAND:** F28	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-12-95
Location: Southeast of 105th/Blake St		**Acres:** 8.31	**Adjacent Land Use:** Residential
Sherwood Quadrangle T2S R1W **Sec.:** 25	**Quarter:** SW	**Map No:** 5218, 5219	**Aerial:** 5

GENERAL DESCRIPTION: F28 is a mixed deciduous/coniferous riparian woodland located mostly in Ibach Park southeast of 105th Avenue. Hedges Creek flows through a a 50 ft. wide floodplain in the north end of the forest. Vegetation is dominated by red alder, Douglas fir, big leaf maple, and Himalayan blackberry and includes a variety of shrubs. Groundcover includes a variety of native wildflowers with pockets of English ivy. Hillslope vegetation helps protect water quality but could be improved by replacing blackberry with native species. Soft path trails wind through the floodplain and on the northern hillslope and are connected to W28 to the southeast.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* red alder	* Himalayan blackberry	waterleaf
Douglas fir	Indian plum	sword fern
big leaf maple	vine maple	white trillium
	thimbleberry	fringecup
	ninebark	English ivy
	beaked hazelnut	
	Oregon grape	

Features: Wildlife habitat: Snags present with cavities, broad wildlife habitat corridor. Recreation: trails developed.

Impacts: Invasive Himalayan blackberry dominates understory.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T6	**UPLAND:** F29	**Type:** Deciduous/Coniferous Riparian		**Field Date:** 5-10-95
Location: North of Golf Course	**Acres:** 2.94	**Adjacent Land Use:** Residential, Golf Course		
Beaverton Quadrangle T2S R1W **Sec.:** 14 **Quarter:** W		**Map No:** 4719, 4819	**Aerial:** 2	

GENERAL DESCRIPTION: F29 is a mixed deciduous/coniferous multi-layered forest remnant in the Tualatin River floodplain. Vegetation is diverse. The owner maintains a circular path through the forest.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
Douglas fir	Indian plum	sword fern
red alder	red elderberry	fringecup
big-leaf maple	Himalayan blackberry	common scouring-rush
Oregon ash	snowberry	Dewey's sedge
Scouler willow	beaked hazelnut	starry false Solomon's seal
	rose	
	ornamental hawthorn	catchweed bedstraw
	Scot's broom	Pacific bleeding heart

Features: Tualatin River.

Impacts: Invasive Himalayan blackberry and Scot's broom in forest margins

UPLAND RESOURCE SUMMARY SHEET

UNIT: LO1	**UPLAND:** F30	**Type:** Coniferous Riparian	**Field Date:** 5-5-95
Location: North of GI Joes		**Acres:** 2.17	**Adjacent Land Use:** Industrial
Lake Oswego Quadrangle T2S R1W **Sec.:** 18 **Quarter:** NW		**Map No:** 4723	**Aerial:** 3

GENERAL DESCRIPTION: F30 is a coniferous riparian forest with existing houses on the south and middle portions of the site. The site is surrounded by industrial and commercial development. The forest is diverse and contiguous to a shallow pond; an oasis in an industrial area. Isolation reduces wildlife habitat values on this site.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (3' dbh)	beaked hazelnut	* sword fern
big-leaf maple	Indian plum	licorice fern
cherry	red elderberry	catchweed bedstraw
western flowering dogwood	poison oak	
Oregon ash	salal	
	Saskatoon serviceberry	
	snowberry	
	ocean spray	
	trumpet honeysuckle	
	Oregon grape	
	Himalayan blackberry	

Features: Contiguous with W42. View-shed of I-5

Impacts: Increased runoff from the north has flooded Douglas fir trees causing mortality in a band of trees surrounding the pond (W42). Isolated by industrial development.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H8 **UPLAND:** F31	**Type:** Coniferous Riparian		**Field Date:** 4-12-95
Location: North of Taylors/Ibach	**Acres:** 1.26	**Adjacent Land Use:** Residential	
Sherwood Quadrangle T2S R1W **Sec.:** 26 **Quarter:** SW		**Map No:** 5219	**Aerial:** 5

GENERAL DESCRIPTION: This stream corridor is bordered by residences to the north and Ibach Rd to the south. The channel averages 5 ft wide and meanders through a floodplain that ranges from 15-20 ft wide (W29). Wetlands are limited to the channel margins where scattered clumps of ladyfern, water parsley and/or American speedwell occur. Hillslope vegetation is dominated by mature Douglas fir (4 ft dbh), Pacific dogwood, Indian plum, vine maple, sword fern, miner's lettuce, and fringecup. A variety of other species are also present. English ivy and Himalayan blackberry are present and should be controlled to prevent their spread.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	vine maple	* sword fern
cherry	Himalayan blackberry	* miner's lettuce
western flowering dogwood	Pacific blackberry	* fringecup
	beaked hazelnut	English ivy
	Indian plum	white inside-out flower
	snowberry	licorice fern
	salal	white trillium
	Pacific ninebark	moss

Features: Mature Douglas fir, aesthetic for neighborhood.

Impacts: Downcutting of stream could undermine slopes. Soil compaction and trampling of understory.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H9 **UPLAND:** F32 **Type:** Deciduous/Coniferous Riparian **Field Date:** 4-26-95

Location: West of 108th/Marilyn Rd **Acres:** 68.88 **Adj. Land Use:** Agr, Ind, Res, Quarry

Sherwood Quadrangle T2S R1W **Sec.:**17,34 **Quarter:** NE **Map No:** 5218, 5318 **Aerial:** 4

GENERAL DESCRIPTION: F32 is a large mixed multi-layered deciduous/coniferous riparian woodland that borders a tributary to Hedges Creek in the Tonquin area. Access was denied in the northwest corner of this site; consequently this description is based on forests bisected by the railroad line on the south end. The forest canopy is dominated by Douglas fir towering above big-leaf maple and cherry trees. There is a pocket of black cottonwood east of the railroad line on the north end. The understory supports a variety of shrubs and herbs providing diverse food and cover resources for wildlife. The large size and condition of the forest and its location adjacent to a stream supports a variety of wildlife including interior forest bird species (thrush) as well as deer.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	Indian plum	* sword fern
* big-leaf maple	red elderberry	Pacific waterleaf
black cottonwood	ocean spray	giant fawn-lily or
cherry	Pacific ninebark	feather false Solomon's
western hemlock	poison oak	seal
Oregon white oak	ornamental hawthorn	starry false Solomon's
western flowering	Himalayan blackberry	seal
dogwood	snowberry	western starflower
Scouler willow	tall Oregon grape	miner's lettuce
	Pacific blackberry	shining crane's-bill
	Saskatoon serviceberry	wild strawberry
	sweetbriar rose	Dewey's sedge
	vine maple	Siberian springbeauty
	thimbleberry	Oregon iris
	salal	

Features: High wildlife habitat (wood ducks, pileated woodpeckers), large snags.

Unique Features: Rounded boulders (about 3 ft. in diameter) from Pleistocene floods are scattered in the forest floor.

Impacts: Quarry has fragmented forest; also noisy.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H9 **UPLAND:** F33 **Type:** Deciduous Riparian		**Field Date:** 4-26-95
Location: Tonquin Area adjacent to Railroad **Acres:** 6.71		**Adj. Land Use:** Agr, Ind, Quarry, Res
Sherwood Quadrangle T2S R1W **Sec.:**34 **Quarter:** NE		**Map No:** 5318 **Aerial:** 4

GENERAL DESCRIPTION: F33 is a large multi-layered deciduous dominated riparian woodland that borders a tributary to Hedges Creek in the Tonquin area. The forest canopy is dominated by Madrone. The understory contains diverse shrubs and herbaceous plants; it also includes abundant moss. F33 is unique due to vegetation and soil type; the plant community is associated with shallow, rocky soils that were exposed during the Pleistocene by floods.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* madrone	Indian plum	* moss
big-leaf maple	red elderberry	sword fern
Douglas fir	ocean spray	Pacific waterleaf
	mock orange	starry false Solomon's seal
	poison oak	shining crane's-bill
	thimble berry	wild strawberry
	honey suckle	Dewey's sedge
	snowberry	melica grass
	Oregon grape	cleavers
	Pacific blackberry	
	sweetbriar rose	
	salal	

Features: High wildlife habitat (food and cover adjacent to large water area). Aesthetic. Educational for unique features.

Unique Features: Rounded boulders (about 3 ft. in diameter) from Pleistocene floods are uncommon but present in the forest floor. Madrone plant community is unique for metropolitan area.

Impacts: Quarry has fragmented forest; also noisy.

UPLAND RESOURCE SUMMARY SHEET

UNIT: SD	**UPLAND:** F34	**Type:** Coniferous	**Field Date:** 5-10-95
Location: SE of 108th/Ibach	**Acres:** 10.84	**Adjacent Land Use:** Residential, Agricultural	
Sherwood Quadrangle T2S R1W **Sec.:** 34 **Quarter:** NE		**Map No:** 5318 **Aerial:** 5	

GENERAL DESCRIPTION: F34 is a large multi-layered coniferous woodland surrounded by agricultural and residential land uses. The canopy is dominated by towering Douglas fir trees. The shrub and herbaceous understory is diverse. There are pockets of English ivy and scattered English holly that can easily be removed. A trail loops through the forest connecting a few residences through backyard access.

Dominant Vegetation (* major dominant):

Trees	**Shrubs**	**Herbaceous**
Douglas fir (4 ft dbh)	beaked hazelnut	* sword fern
madrone	snowberry	* white inside-out flower
western flowering dogwood	Indian plum	white trillium
big-leaf maple	poison oak	catchweed bedstraw
	ocean spray	western starflower
	wood rose	feather false Solomon's seal
	salal	English ivy
	red elderberry	vanilla leaf
	thimbleberry	
	mock orange	
	English holly	

Features: Diverse forest, large size. Neighborhood loop trail.

Impacts: Pockets of English ivy.

UPLAND RESOURCE SUMMARY SHEET

UNIT: SD1	**UPLAND:** F35	**Type:** Coniferous Riparian	**Field Date:** 5-3-95
Location: East of Graham's Ferry/Helenius Rd		**Acres:** 5.82	**Adj. Land Use:** Residential
Sherwood Quadrangle T2S R1W **Sec.:** 35 **Quarter:** NW		**Map No:** 5319	**Aerial:** 5

GENERAL DESCRIPTION: F35 is a coniferous riparian forest located on steep hillslopes and basalt outcroppings adjacent to the "East Fork of Seely Ditch." Canopy vegetation is multi-layered and multi-aged and dominated by Douglas fir. The shrub and herbaceous understory is diverse with high ecological integrity.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir (3' dbh)	* Oregon grape	* sword fern
big-leaf maple	* beaked hazelnut	licorice fern
	* salal	white trillium
	* poison oak	giant trillium
	* oceanspray	Siberian springbeauty
	Saskatoon serviceberry	feather false Solomon's seal
	snowberry	starry false Solomon's seal
	thimbleberry	western starflower
	rose	white inside-out flower
	trumpet honeysuckle	may lily
	mock orange	giant fawn-lily
	vine maple	wild strawberry
		moss

Features: High ecological integrity, wildlife habitat, aesthetics, uniqueness (rock outcrops).

Impacts: Residential development is in process and has eliminated forest vegetation beyond the top of the hillslope. Soil disturbance on forest margins will promote the encroachment of invasive plant species (blackberry). English ivy, vinca, or other invasive ornamentals should not be allowed in landscaping these new residences as they could spread to the forest.

UPLAND RESOURCE SUMMARY SHEET

UNIT: SD1	**UPLAND:** F36	**Type:** Deciduous Riparian	**Field Date:** 5-3-95
Location: East of Graham's Ferry/Helenius Rd		**Acres:** 1.85	**Adj. Land Use:** Residential
Sherwood Quadrangle T2S R1W **Sec.:** 35 **Quarter:** NW		**Map No:** 5319	**Aerial:** 5

GENERAL DESCRIPTION: F36 is an oak woodland dominated by mature oak and scrub oak. Additional dominant vegetation includes poison oak, snowberry and Scot's broom. This community is unique in Tualatin and typical of scabland scoured by Pleistocene floods. This remnant scabland has been disturbed and Scot's broom is a dominant invasive species.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Oregon white oak	* Oregon white oak	red dead-nettle
madrone	* poison oak	miner's lettuce
	* snowberry	orchard grass
	* Scot's broom	rosy plectritis
	Saskatoon serviceberry	
	ocean spray	

Features: Unique plant community, geological feature (scabland).

Impacts: Invasive Scot's broom.

Conflicts: Proposed residential development.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H	**UPLAND:** F37	**Type:** Deciduous/Coniferous	**Field Date:** 5-13-95
Location: SW of Tualatin Rd/108th		**Acres:** 2.78	**Adjacent Land Use:** Industrial
Beaverton Quadrangle T2S R1W **Sec.:** 22 **Quarter:** NE		**Map No:** 4918	**Aerial:** 1

GENERAL DESCRIPTION: F37 is in the Hedges Creek drainage basin. It is a small isolated mixed deciduous/coniferous woodland surrounded by agricultural and industrial land (OKI). The canopy is dominated by maturing Douglas fir and big leaf maple trees. The understory is dominated by sword fern and English ivy. Topography is undulating and typical of a headwater area; however, surrounding agricultural practices have modified drainage.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	beaked hazelnut	* sword fern
* big-leaf maple	thimbleberry	* English ivy
cherry	Oregon grape	catchweed bedstraw
black cottonwood	ocean spray	white trillium
	English holly	white inside-out flower
	wood rose	stream violet
		stinging nettle
		piggy-back plant
		crane's-bill

Features: maturing trees

Impacts: English ivy is dominant in much of the woodland reducing native species cover.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T7	**UPLAND:** F38	**Type:** Deciduous	**Field Date:** 5-30-95
Location: NE of Hwy 99W/Tualatin Road		**Acres:** 11.40	**Adjacent Land Use:** Residential
Beaverton Quadrangle T2S R1W **Sec.:** 15 **Quarter:** SW		**Map No:** 4817	**Aerial:** 1

GENERAL DESCRIPTION: F38 is an early successional woodland located adjacent to Highway 99W. The canopy is open and extremely shrubby. Vegetation is dominated by big-leaf maple, Scouler's willow, Himalayan blackberry, bracken fern, and English ivy. More mature trees occur on the perimeter adjacent to 99w and include Douglas fir. This site provides limited resource values although it does provide a scenic view from 99W.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* big-leaf maple	* Himalayan blackberry	* English ivy
* Scouler willow	beaked hazelnut	* bracken
cherry or plum	Scot's broom	sweet pea
Douglas fir	trumpet honeysuckle	sword fern
western hemlock	English holly	crane's-bill
red alder	red elderberry	Dewey's sedge
western red cedar	thimbleberry	fringecup
	ornamental hawthorn	
	salal	

Features: View-shed of Highway 99W

Impacts: Herbicide spray of Himalayan blackberry on east forest margins adjacent to Rivercrest. Dense Himalayan blackberry throughout and English ivy on west end.

UPLAND RESOURCE SUMMARY SHEET

UNIT: S4	**UPLAND:** F39	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-4-95
Location: NE of Ibach/Martinazzi to I-5		**Acres:** 2.21	**Adjacent Land Use:** Residential
Sherwood Quad T2S R1W **Sec.:** 25/26 **Quarter:** SW/SE		**Map No:** 5220, 5221	**Aerial:** 5

GENERAL DESCRIPTION: F39 is a forested stream corridor. Vegetation on the hillslopes is dominated by Himalayan blackberry, Indian plum, and red elderberry. Where Himalayan blackberry thickets occur, there is no duff and greater erosion potential.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* red alder	* Himalayan blackberry	English ivy
Douglas fir	* Indian plum	sword fern
cherry	* red elderberry	water leaf
western red cedar	beaked hazelnut	
weeping willow	thimbleberry	
	vine maple	
	ornamental hawthorn	
	English holly	

Features: Chieftain Dakota Greenway; paved walking trail.

Impacts: Yard debris dumped on hillslopes; Himalayan blackberry dominant on hillslopes reducing plant diversity and water quality protection. I-5 noisy. F39 helps reduce noise.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H	**UPLAND:** F40	**Type:** Deciduous/Coniferous	**Field Date:** 5-16-95
Location: SW of Tualatin-Sherwood/Teton		**Acres:** 2.44	**Adjacent Land Use:** Industrial
Beaverton Quadrangle T2S R1W **Sec.:** 26 **Quarter:** NW		**Map No:** 5119	**Aerial:** 4

GENERAL DESCRIPTION: F40 is a small isolated woodland surrounded by industrial development and on the south and east by a broad band of Himalayan blackberry. Dominant canopy species include oak, ponderosa pine and Scouler's willow. The understory is dominated by snowberry, English ivy, and a variety of wildflowers.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* ponderosa pine	* snowberry	* English ivy
* Oregon white oak	beaked hazelnut	fringecup
* Scouler willow	black hawthorn	stream violet
birch	ornamental hawthorn	white trillium
black cottonwood	Himalayan blackberry	sword fern
Douglas fir	Scot's broom	Dewey's sedge
madrone	thimbleberry	white inside-out flower
	Pacific ninebark	Henderson's sedge

Features: Low value for wildlife habitat. (No water, access limited). Trees are aesthetic and provide shade.

Impacts: invasive ivy and blackberry

UPLAND RESOURCE SUMMARY SHEET

UNIT: H	**UPLAND:** F41	**Type:** Coniferous Riparian	**Field Date:** 6-16-95
Location: NE of Tualatin-Sherwood/Cipole		**Acres:** 1.32	**Adj. Land Use:** Industrial, Agr.
Sherwood Quadrangle T2S R1W **Sec.:** 28 **Quarter:** NE		**Map No:** 5116	**Aerial:** 4

GENERAL DESCRIPTION: F41 is a small isolated woodland surrounded by agricultural land and industrial development. The canopy is dominated by Douglas fir. The understory has been disturbed by past clearing; there are few shrubs and large pockets of weedy species such as nipplewort. The forest provides shade and is an amenity to the developed sites surrounding it. It provides food and cover for canopy species and small terrestrial species.

Dominant Vegetation (* major dominant):

Trees	Shrubs (forest margins)	Herbaceous
* Douglas fir	snowberry	nipplewort
cherry	beaked hazelnut	fringecup
madrone	red hawthorn	wild strawberry
	Himalayan blackberry	Dewey's sedge
	Pacific blackberry	sweet cicely
	thimbleberry	cleavers
	woods rose	

Features: Low to medium value for wildlife habitat (No water, access limited). Trees are aesthetic and provide shade.

Impacts: invasive blackberry; surrounded by cyclone fence

UPLAND RESOURCE SUMMARY SHEET

UNIT: T7	**UPLAND:** F42	**Type:** Coniferous, Riparian	**Field Date:** 6-16-95
Location: North of Hwy 99W/Cipole Rd.		**Acres:** 3.18	**Adjacent Land Use:** Residential, Agr.
Beaverton Quadrangle T2S R1W **Sec.:**16 **Quarter:** SW		**Map No:** 4815	**Aerial:** 1

GENERAL DESCRIPTION: F42 is located in the northwest corner of the Tualatin UGB adjacent to the Tualatin River. Douglas fir trees are scattered on the terrace above the steep hillslopes. The understory in this area has been seeded with grass. Hillslope vegetation is diverse, multi-aged, and multi-layered and provides abundant food, cover, and nesting resources for wildlife. Dominant species on the hillslope include Douglas fir, big leaf maple, western red cedar, snowberry, beaked hazelnut, sword fern and waterleaf. The Douglas fir and western red cedar are large in diameter and there is one unique cedar near the top of slope with four major trunks growing from a broken top about 20 ft. above the forest floor. The floodplain is broader than most of the river banks and consists of large pockets of wetland vegetation including Oregon ash, red alder, ninebark, willow salmon berry, reed canarygrass, and stinging nettle; it also includes dense blackberry thickets that are difficult to traverse.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
* Douglas fir	* snowberry	* sword fern
* big leaf maple	* beaked hazelnut	* waterleaf
* western red cedar	Oregon grape	tall fescue
cherry	oceanspray	fringecup
red alder	fairy lanterns	wild strawberry
Oregon ash	vine maple	Dewey's sedge
	Himalayan blackberry	sweet cicely
	woods rose	cleavers
	English holly	inside-out flower
		melica grass
		Siberian springbeauty
		trillium

Features: High wildlife habitat (water, diverse food and cover, corridor); contiguous with W51, F43, and the Tualatin River. Aesthetic and provides shade and water quality protection.

Impacts: none

UPLAND RESOURCE SUMMARY SHEET

UNIT: T1-T7	**UPLAND:** F43	**Type:** Deciduous/Coniferous Riparian	**Field Date:** 4-20-95
Location: Tualatin River	**Acres:** 34.94	**Adjacent Land Use:** Residential, Commercial, Industrial	
Beav.& L.O. Quadrangles T2S R1W		**Map No:** many	**Aerials:** 1,2, & 3

GENERAL DESCRIPTION: F43 is a band of riparian forest located on the banks of the Tualatin River throughout the Tualatin UGB. In most places vegetation is diverse and helps shade the river and protect the streambanks from erosion. It also provides food, cover, and nesting resources for a variety of wildlife species. Some reaches are developed but have retained a narrow band of canopy species. Common plants found in the riparian zone are listed below.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
big leaf maple	snowberry	sword fern
cherry	red elderberry	fringecup
Douglas fir	beaked hazelnut	Siberian springbeauty
Oregon ash	Oregon grape	waterleaf
red alder	oceanspray	Dewey's sedge
western red cedar	fairy lanterns	sweet cicely
incense cedar	vine maple	cleavers
	Himalayan blackberry	inside-out flower
	woods rose	melica grass
		trillium

Features: High wildlife habitat (provides food, cover, nesting sites for a variety of species); protects streambanks and water quality; shades river; aesthetic from land and water; mostly included in Tualatin River greenway; High education and recreation values on public land in Tualatin Community Park and Brown's Ferry Park.

Impacts: Some houses and apartments are built too closely to riverbank causing potential erosion, reduction of wildlife habitat etc...

UPLAND RESOURCE SUMMARY SHEET

UNIT: H4 **UPLAND:** F44 Type: Deciduous/coniferous Riparian **Field Date:** 6-16-95

Location: NE Cipole/Tualatin-Sherwood Rd **Acres:** 0.55 **Adjacent Land Use:** Agr. Industrial

Sherwood Quadrangle T2S R1W **Sec.:** 27 **Quarter:** NW **Map No:** 5117 **Aerial:** 4

GENERAL DESCRIPTION: F44 is an extremely disturbed intermittent stream corridor. The channel has been tiled. The woodland northwest of F44 was recently logged and stumps, branches... were dumped into the stream channel. Canopy vegetation is a mixture of deciduous and coniferous trees; most are greater than 2.5 ft in diameter. The understory is dominated by invasive species such as Himalayan blackberry and morning glory. This site is small and disturbed but important because it is adjacent to a stream corridor.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
western red cedar	beaked hazelnut	* morning glory
big leaf maple	* Himalayan blackberry	
Douglas fir		
black cottonwood		
madrone		

Features: adjacent to W34

Impacts: disturbed by land clearing and invasive species.

UPLAND RESOURCE SUMMARY SHEET

UNIT: T1	**UPLAND:** M1	**Type:** Meadow, Riparian	**Field Date:** 4-20-95
Location: North of 46th Ave/Natchez Ct.		**Acres:** 3.67	**Adjacent Land Use:** Residential
Lake Oswego Quadrangle	T2S R1W **Sec.:** 19 **Quarter:** SE	**Map No:** 5024	**Aerial:** 3

GENERAL DESCRIPTION: M1 is located southwest of the confluence of Saum Creek and the Tualatin River. It is crossed by fencelines and most likely was used for pasture in the recent past. Vegetation is a mixture of grasses and forbs dominated by non-native species. It contains scattered clumps of red hawthorn. It is contiguous with the Tualatin River and woodlands to the east, south, and west.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
	ornamental hawthorn	tall fescue orchard grass timothy English plantain common dandelion sheep sorrel self-heal vetch Queen Anne's lace common thistle

Features: Contiguous with the Tualatin river, F13, F14, F15, and F43; aesthetic views of river.

Impacts: Historical pastureland; gravel road.

UPLAND RESOURCE SUMMARY SHEET

UNIT: H9	**UPLAND:** M2	**Type:** Deciduous, Riparian	**Field Date:** 4-26-95
Location: Tonquin Area adj. to Railroad		**Acres:** 0.33	**Adj. Land Use:** Agr., Industrial, Residential
Sherwood Quadrangle T2S R1W	**Sec.:**34	**Quarter:** NE	Map No: 5318 **Aerial:** 4

GENERAL DESCRIPTION: M2 is herbaceous vegetation located on rocky outcrops and cliff faces in the Tonquin area. It contains a unique plant community adapted to shallow rocky soils. Vegetation is similar to species growing in the Columbia River Gorge and Camassia (in Oregon City) associated with shallow, rocky soils that were exposed during the Pleistocene by floods.

Dominant Vegetation (* major dominant):

Trees	Shrubs	Herbaceous
	oceanspray	moss
	serviceberry	onion
	Scot's broom	slender clarkia
		California oatgrass
		small-flowered tonella
		large-flowered blue-eyed Mary
		saxifrage
		rosey plectritus
		chickweed monkeyflower
		cheat grass

Features: Aesthetic. Educational for unique features.

Impacts: invasive species (Scot's broom and cheat grass); firing range and quarry are audible

APPENDIX C

Table 5. Environmental and Social Values Assessment of Units and Isolated Sites

Environmental and Social Values Summary Sheets

Table 5. Environmental and Social Values Assessment of Units and Isolated Sites

Unit	#	Location	Acres	WH	FISH	EI	C	U	WQP	WQ	HC	ED	REC	AQ
C	W49	Grimm's Fuel Co., SE of Cipole/99W	1.83	H	H	L	L	L	-	L	L	L	L	M
C1	F25	NW of 118th / Herman Rd.	7.90	H	-	MH	H	L	M	-	-	L	L	H
C1	W37	WIA West of 124th	23.29	H	H	MH	H	L	-	H	H	L	L	H
C1	W38	Grimm's Fuel Co., SE of Cipole/99W	4.55	H	H	M	H	L	-	H	H	L	M	H
H	F37	SW of Tualatin Rd / 108th	2.78	M	-	L	L	L	L	-	-	L	L	M
H	F40	SW of Tualatin - Sherwood Rd. / Teton	2.44	L	-	L	L	L	L	-	-	L	L	M
H	F41	NE of Cipole / Tualatin - Sherwood	1.32	M	-	L	L	L	M	-	-	L	L	H
H	W25	NW of Industrial Way	5.37	M	H	L	L	L	-	M	H	L	M	M
H	W28	Ibach Greenway	0.77	M	H	L	M	L	-	L	L	M	H	H
H	W36	WIA N. of Herman Rd., E. of 124th	24.83	L	H	L	L	L	-	M	M	L	L	M
H	W40	SE of Tualatin- Sherwood Rd. / Teton	4.80	M	L	L	L	L	-	M	L	L	L	L
H	W43	NE of 118th / Myslony	0.15	L	L	L	L	L	-	L	L	L	L	L
H	W44	NE of 118th / Myslony	filled	L	L	L	L	L	-	L	L	L	L	L
H	W46	Industrial Way / 108th	0.05	L	L	L	L	L	-	L	L	L	L	L
H	W47	SW of Ibach / Boones Ferry Rd.	2.15	M	L	L	L	L	-	M	L	L	L	M
H1	W22	Hedges Cr. E. of Tualatin Rd.	1.52	M	H	L	H	L	-	M	M	H	H	H
H2	F21	S of Tualatin Rd & Tualatin Country Club	12.96	H	-	M	H	L	L	-	-	L	L	H
H2	F22	SE of Teton / Herman Rd.	3.78	H	-	M	H	M	M	-	-	L	L	H
H2	F23	NW of Teton / Manhasset	2.33	H	-	H	H	M	M	-	-	L	L	H
H2	W23	Wetland Protection District	61.21	H	H	L	H	H	-	H	H	H	H	H
H2	W48	NW of Boones Ferry / Tualatin Rd	1.96	H	L	L	H	L	-	M	M	H	H	H
H3	F24	South of Herman Rd.	13.24	H	-	M	H	M	M	-	-	L	L	H
H3	W35	South of Herman Rd.	30.26	H	H	M	H	M	-	H	H	L	L	H
H4	F44	NE of Tualatin-Sherwood Rd./Cipole Rd.	0.55	M	-	L	L	L	M	-	-	L	L	M
H4	W34	WIA : Myslony - Tualatin-Sherwood Rd.	36.01	M	H	L	M	L	-	M	M	L	L	M
H5	F26	SW of Avery / Tualatin-Sherwood Rd.	8.75	MH	-	L	L	L	M	-	-	L	L	H
H5	W24	SW of Avery / Tualatin-Sherwood Rd.	1.57	MH	H	L	L	L	-	H	H	L	L	H
H6	F27	NW of 105th / Blake St.	5.04	H	-	M	M	L	H	-	-	L	L	H
H6	W26	NW of 105th / Blake St.	1.01	H	H	L	M	L	-	H	H	L	M	H
H7	F28	SE of 105th / Blake St.	8.31	H	-	L	H	L	H	-	-	H	H	H
H7	W27	SEof 105th / Blake St.	2.40	H	H	L	H	M	-	M	M	H	H	H
H8	F31	N of Taylors / Ibach	1.26	M	-	M	L	H	M	-	-	L	M	H
H8	W29	N. of Taylors / Ibach	0.32	M	H	M	M	L	-	L	M	L	M	H
H9	F32	West of 108th	68.88	H	-	H	H	H	H	-	-	M	L	H
H9	F33	Tonquin Area by RxR	6.71	H	-	H	H	H	H	-	-	L	L	H
H9	M2	Tonquin Area by RxR	0.33	L	-	H	L	H	-	-	-	H	L	H
H9	W32	S. of Industrial Way / 108th	13.53	H	H	H	H	H	-	H	H	H	L	H
H9	W33	W. Fork of Hedges Cr.; S. of Tual.- Sher.	2.07	M	L	L	L	L	-	L	L	L	L	M
L01	F30	North of G.I. Joes	2.17	M	-	L	L	L	M	-	-	L	L	H
L01	W41	N. of GI Joes	0.86	M	L	L	L	L	-	L	L	L	L	M
L01	W42	N. of GI Joes	0.47	M	M	L	L	M	-	L	M	L	L	M
N	F4	NE of BoonesFerry/Killarney Ln.	6.27	MH	-	M	L	M	M	-	-	H	H	H
N	W39	NE of Avery / 93rd	0.25	M	L	L	L	L	-	M	L	L	L	M
N	W5	Nyberg Cr.: Boones Ferry to Martinazzi	0.71	L	H	L	M	L	-	ML	M	L	M	M
N	W6	Todd Village Apts., Warmsprings/Martin.	0.31	L	L	L	L	L	-	L	L	L	L	M
N1	F1	South of Nyberg Lane (W2)	2.00	H	-	L	H	L	M	-	-	L	L	M
N1	W1	North of Nyberg Lane	2.47	H	H	H	H	L	-	L	L	H	H	H
N1	W2	Nyberg Cr. : 65th Ave. - Nyberg Lane	8.47	H	H	L	H	L	-	H	H	L	L	H
N2	F2	North of Napa	2.19	H	-	L	H	L	M	-	-	L	L	H
N2	W3	Nyberg Cr. : I-5 - 65th Ave.	31.00	H	H	L	H	L	-	H	H	H	H	H
N3	F3	South of Fred Myer	4.12	H	-	M	H	L	H	-	-	L	L	H
N3	W4	Nyberg Cr. : Martinazzi - I-5	11.64	H	H	L	H	L	-	H	H	L	L	H

WH = Wildlife Habitat
FISH = Fish Habitat
EI = Ecological Integrity
C = Connectivity
U = Uniqueness

WQP = Water Quality Potential
WQ = Water Quality
HC = Hydrologic Control
ED = Education Potential
REC = Recreation
AQ = Aesthetic Quality

Table 5, Continued. Environmental and Social Values Assessment of Units and Isolated Sites

Unit	#	Location	Acres	WH	FISH	EI	C	U	WQP	WQ	HC	ED	REC	AQ
S	F11	NE of Piute / Martinazzi	4.22	M	-	M	L	L	M	-	-	L	M	H
S	F12	I-5 / I-205 Forest : Interchange	11.96	L	-	L	L	L	L	-	-	L	L	H
S	F7	NW of Borland / 57th Ave	4.65	L	-	L	L	L	L	-	-	L	L	M
S	F9	East of I-5	6.40	MH	-	H	H	L	H	-	-	L	M	H
S1	F13	Saum Cr.: Prosperity Park Rd. - Tual. R.	13.06	H	-	M	H	L	H	-	-	L	M	H
S1	W7	Saum Cr. : Borland - Tualatin River	2.38	H	H	M	H	M	-	H	H	L	M	H
S1	W8	Saum Cr. : Prosperity Park Rd.-Borland	1.88	MH	H	L	M	L	-	H	H	L	M	H
S2	F5	North of I-205	10.99	MH	-	M	H	L	H	-	-	L	L	H
S2	F6	SW of Borland / 57 Ave	3.84	M	-	M	M	L	L	-	-	L	L	H
S2	W9	Saum Cr.: 65th Ave.- Prosperity Park Rd.	13.23	MH	H	L	M	L	-	H	H	L	L	H
S3	F8	NE of I-5 / I-205	4.38	M	-	M	L	L	L	-	-	L	L	H
S3	W10	Saum Cr.: I-5 - 65th Ave.	14.59	MH	H	L	M	L	-	H	H	H	H	H
S4	F10	SW of Blake St. & I-5	4.39	M	-	ML	L	L	L	-	-	L	L	H
S4	F39	NE of Blake / Martinazzi	2.21	M	-	L	L	L	M	-	-	L	H	H
S4	W11	Dakota Creek NE of Blake/Martinazzi	0.49	M	L	L	L	L	-	M	L	L	H	H
SD	F34	SE of 108th / Ibach	10.84	M	-	M	L	L	L	-	-	L	M	H
SD	W30	NW of Norwood / Boones Ferry Rd.	0.03	M	L	L	L	H	-	L	L	M	L	M
SD1	F35	East of Grahams Ferry / Helenius	5.82	H	-	H	M	H	H	-	-	L	L	H
SD1	F36	East of Grahams Ferry / Helenius	1.85	H	-	M	M	H	L	-	-	L	L	H
SD1	W31	East of Grahams Ferry	1.96	H	L	M	M	L	-	M	M	L	L	H
T	F38	NE of Hwy 99W / Tualatin Rd.	11.40	L	-	L	L	L	L	-	-	L	L	H
T1	F14	NE of 50th / Wichita	1.62	H	-	L	H	L	H	-	-	L	L	M
T1	F15	North of Nyberg Lane	8.97	H	-	H	H	L	H	-	-	L	L	H
T1	M1	NE of 50th / Wichita	3.67	M	-	L	H	L	-	-	-	L	L	H
T1	W12	NE of E. end of Nyberg Ln.	0.24	M	L	L	M	L	-	L	L	L	L	M
T1	W13	North of Nyberg Lane	1.14	H	L	H	H	M	-	L	L	H	L	H
T1	W14	NW of Nyberg Ln. / 57 Ave.	2.09	H	H	M	H	L	-	M	L	H	H	H
T1	W50	North of Natchez Ct.	0.18	H	H	M	H	L	-	M	L	L	M	H
T1-T7	F43	Contiguous w/ Tualatin R.	34.94	H	-	M	H	L	H	-	-	H	H	H
T2	F16	North of Sweetbrier Inn	8.30	H	-	MH	H	L	H	-	-	L	H	H
T2	W15	West of Forest Rim Apts	1.81	H	M	H	L	M	-	L	L	L	L	H
T2	W16	North of Sweetbrier Inn	1.99	H	L	M	M	L	-	L	L	L	L	H
T3	F17	I-5 / Tualatin River	5.06	H	-	L	H	L	H	-	-	L	L	H
T4	F18	Tualatin City Park	7.18	H	-	M	H	L	H	-	-	H	H	H
T5	W17	Between Tual. Country Club & City Park	3.37	H	M	M	M	L	-	M	L	L	L	H
T5	W18	Tualatin Country Club	2.06	H	H	L	H	L	-	M	L	L	M	H
T5	W52	NW of Tualatin River / Oregon El. RxR	1.06	H	H	M	H	L	-	M	L	L	L	H
T6	F19	NW of Jurgens Park	2.86	H	-	M	H	L	H	-	-	L	L	H
T6	F20	North of Hazelbrook Rd.	3.63	M	-	L	H	L	H	-	-	L	L	H
T6	F29	N. of Tualatin Country Club	2.94	H	-	M	H	L	H	-	-	L	L	H
T6	W19	NE of Cheyenne Way	6.70	H	M	L	H	L	-	M	L	H	H	H
T6	W20	East of Jurgens Lane	10.25	M	L	L	L	L	-	L	L	L	L	M
T6	W21	N. of Hazelbrook Rd.	12.66	H	L	H	H	H	-	M	L	H	H	H
T7	F42	NE of Cipole / Hwy 99W	3.18	H	-	H	H	L	H	-	-	L	H	H
T7	W45	SW of Tualatin River/Hwy 99W	0.75	M	L	L	L	L	-	L	L	L	M	H
T7	W51	North of Cipole / Hwy 99W	0.84	H	L	L	H	L	-	M	L	L	L	H
			697.22											

WH = Wildlife Habitat
FISH = Fish Habitat
EI = Ecological Integrity
C = Connectivity
U = Uniqueness

WQP = Water Quality Potential
WQ = Water Quality
HC = Hydrologic Control
ED = Education Potential
REC = Recreation
AQ = Aesthetic Quality

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: C1	**SITES:** F25, W37, W38	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: WIA: north of Herman Rd.		**Adjacent Land Use:** Industrial	**Acres:** 35.74

GENERAL DESCRIPTION: Unit C1 is a diverse unit with excellent interspersion of wetlands and uplands. The east half of F25 has high ecologic integrity. W37 contains large pockets of native sedge species. W38 provides permanent water and emergent habitat for wildlife. Together these three resource sites provide important environmental and social values.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation and communities; water
Fish Habitat	H	permanent water
Ecological Integrity	MH	pockets of invasives
Connectivity	H	large size and interspersion
Uniqueness	M	native sedge community
Water Quality	H	large floodplain wetlands; industrial runoff
Hydrologic Control	H	large floodplain wetlands

SOCIAL VALUES:	rating*	comments
Education Potential	L	no public access
Recreation	L	no public access
Aesthetic Quality	H	large size, scenic values

IMPACTS: noise and smells from Grimm's; invasive species on forest margins

CONFLICTS: A proposed roadway (124th) will separate forest from wetlands and impact wildlife habitat and the uniqueness of this unit if constructed

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: C	**SITES:** W49	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: Grimm's Fuel Co.		**Adjacent Land Use:** Industrial	**Acres:** 1.83

GENERAL DESCRIPTION: W49 is an excavated pond at the north end of Grimm's Fuel Co. An active fill area is located just north of the pond. The south and west ends of the pond contain a well-developed riparian canopy of black cottonwood and willow.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation; water
Fish Habitat	H	permanent water — wrong
Ecological Integrity	L	invasive species common
Connectivity	L	isolated by industrial activities
Uniqueness	L	
Water Quality	L	industrial runoff; limited emergent and forested areas
Hydrologic Control	L	limited area

SOCIAL VALUES:	rating*	comments
Education Potential	L	no public access
Recreation	L	no public access
Aesthetic Quality	M	landfill activities reduce aesthetics

IMPACTS: noise and smells from Grimm's; invasive species on pond margins

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H1	**SITES:** W22, F43	**1995 Inventory Map:** Northwest	**Aerial No:** 2
Location: Tualatin Community Park; NE of Boones Ferry/Tualatin Rd.			
Adjacent Land Use: Residential, commercial, Park			**Acres:** 1.52 + F43

GENERAL DESCRIPTION: W22 represents lower Hedges Creek between Tualatin Road and the confluence of Hedges Creek and the Tualatin River. The stream meanders through a natural channel and also has been channelized in places. Vegetation is dominated by Oregon ash, red alder, Himalayan blackberry, reed canarygrass, and bittersweet nightshade and includes ninebark, rose, spirea, creek dogwood, Piper's willow, spikerush, and creeping buttercup. The wetland boundary is distinct and identified by a topographic break and where vegetation changes from reed canarygrass and Oregon ash to Himalayan blackberry. A paved path is located on the north side of the creek inside Tualatin Community Park and is regularly used by pedestrians, and bicyclists. The east end of the stream meanders through residential property. The floodplain is varies in width and averages approximately 20 ft wide which benefits water quality by filtering and absorbing pollutants.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	Stream corridor, permanent water, connected to Tualatin River, limited variety of food. Cover reduced due to invasive Himalayan blackberry and reed canarygrass.
Fish Habitat	H	Mosquito fish, 3-spine stickleback, reticulated sculpin, and crayfish (ODFW)
Ecological Integrity	L	Canopy is mostly native species; understory is exotic.
Connectivity	H	Connected to the Tualatin River riparian corridor.
Uniqueness	L	Floodplain approximately 20 ft wide; helps filter
Water Quality	M	sediment and absorb nutrients.
Hydrologic Control	M	Floodplain < 25 ft broad; helps retain water; located below major runoff

SOCIAL VALUES:	rating*	comments
Education Potential	H	Public park with access; habitat improvements could be made.
Recreation	H	Public park w/ access; Greenway easements in portions of lower section
Aesthetic Quality	H	Noise and visual buffer separating park from commercial development to the south.

IMPACTS: Runoff from residential and commercial properties; invasive Himalayan blackberry and reed canarygrass; lower end very close to Boones Ferry Rd. ROW

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H2 **SITES:** W23, W48, F21-23 **1995 Inventory Map:** Northwest **Aerial No:** 1&2

Location: Hedges Creek and adjacent natural areas within Wetland Protection District

Adjacent Land Use: Industrial, residential **Acres:** 82.24 +

GENERAL DESCRIPTION: H2 is lower Hedges Creek between Pascuzzi Pond and Boones Ferry Road. The wetlands within the Wetland Protected Area W23 are protected from development and development of surrounding lands must preserve a minimum 40 ft buffer. Many reports on the natural resources values of this area have been prepared including: "Wetland Protection Area Resources Management Plan" for the ZIAN property (FES, 1994). H2 includes a variety of contiguous habitats including forested, scrub-shrub, emergent, and open water wetlands and deciduous and coniferous uplands. Hedges Creek has been channelized throughout this reach; beaver dams constructed across the stream have caused flooding into adjacent emergent areas. The floodplain is approximately 300-400 ft broad and dominated by reed canarygrass. The wetlands provide high environmental values for wildlife habitat, hydrologic control, water quality, and connectivity. A variety of wildlife have been observed including red-tailed hawks, great horned owls, great blue heron, waterfowl, warblers, woodpeckers, songbirds, northwest salamander, Pacific tree frog, garter snake, vole, beaver, and many others. The most unique recent sitings include Virginia rail, American bittern, egret, and river otter. Adjacent uplands have been reduced in most of this reach to a 40 ft buffer. Three woodlands remain (F21, F22, F23) contiguous with the site and provide critical food, cover, and nesting opportunities for wildlife. These forests are in variable condition. F23 stands out for its ecological integrity. Most of the wetlands in H2 are managed by the Wetlands Conservancy and provide recreational and educational opportunities. TWC has enhanced wildlife habitat by planting native trees and shrubs, and installing nest boxes. They have increased public awareness by educating adjoining businesses of the importance of the wetlands, creating public trails, and constructing wildlife viewing blinds. Aesthetic values are also high.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	Permanent water; refreshment for all wildlife and breeding habitat for amphibians. Food and cover for a variety of small wildlife species.
Fish Habitat	H	stickleback, sculpin, crayfish, bluegill, large-mouthed bass, pumpkin seed (ODFW)
Ecological Integrity	H,M,L	L in marsh; H in F23; M in F21, F22.
Connectivity	H	large wetland with scattered contiguous riparian forest
Uniqueness	H	one of the largest wetlands in urbanized Washington Co.
Water Quality	H	Broad floodplain.
Hydrologic Control	H	Beaver dams help retain water.

SOCIAL VALUES:	rating*	comments
Education Potential	H	Used by school groups, scouts, and community for educational field trips.
Recreation	H	Pascuzzi, Sweek and old beaver ponds have trails constructed and maintained by TWC
Aesthetic Quality	H	Large natural area viewed by community; limited garbage

CONFLICTS: A proposed road will cross W23 between Tualatin/Sherwood road and the entrance to Tualatin Country Club. This will divide ecosystem and create more human intrusion into natural area.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H3	**SITES:** F24, W35	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: South of Herman Rd		**Adjacent Land Use:** Industrial, Agricultural	**Acres:** 43.5

GENERAL DESCRIPTION: H3 includes a multi-layered, multi-aged forest interspersed with forested and emergent wetlands. Its large size and habitat variety provide abundant food and cover resources for wildlife even though most of the site is grazed by cattle. Access was denied on most of this site.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation; large size; water
Fish Habitat	H	potential; perennial stream
Ecological Integrity	M	grazed; excellent interspersion
Connectivity	H	large size; connected to the Wetand Protection
Uniqueness	M	Area
Water Quality	H	mosaic of habitats, high interspersion
Hydrologic Control	H	broad floodplain
		broad floodplain

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	H	large size

IMPACTS: cattle grazing

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H4	**SITES:** F44, W34	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: WIA: Mysiony-Tual.-Sherwood			
Adjacent Land Use: Industrial, Agricultural			**Acres:** 36.56

GENERAL DESCRIPTION: W34 is a large agricultural wetland and F44 is a small riparian remnant community that is located on a small intermittent stream that flows into W34. Environmental and social values are greatly reduced due to major ditching and tiling associated with agricultural practices. There is potential for high hydrologic control, water quality, and wildlife habitat, if restored.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	large size; water; agricultural uses
Fish Habitat	H	potential; perennial stream
Ecological Integrity	L	agriculture
Connectivity	M	large size; stream connected
Uniqueness	L	
Water Quality	M	stream altered; floodplain altered
Hydrologic Control	M	broad floodplain

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	M	large size

IMPACTS: agricultural practices

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H5	**SITES:** F26, W24	**1995 Inventory Map:** Southwest	**Aerial No:** 4
Location: SW of Avery/Tualatin-Sherwood Rd.			
Adjacent Land Use: Industrial, Agr.			**Acres:**10.32

GENERAL DESCRIPTION: H5 is a reach of Hedges Creek located south of Tualatin-Sherwood Road. Unified Sewerage Agency is using W24 for a stream enhancement project. The dominant land use surrounding this unit is industrial. Hillslopes are disturbed by fill and yard debris piles. Hedges Creek is shaded by a well developed riparian canopy which helps protect the hillslopes. F26 increases wildlife habitat values by providing additional food and cover resources adjacent to Hedges Creek. Wildlife habitat would improve with removal of English ivy since its presence reduces vegetation species diversity.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	MH	diverse vegetation; large size; water; busy road
Fish Habitat	H	potential; perennial stream
Ecological Integrity	L	invasive ivy and blackberry; busy road
Connectivity	L	isolated by road and dam
Uniqueness	L	
Water Quality	H	broad floodplain in places
Hydrologic Control	H	broad floodplain; retains surface water

SOCIAL VALUES:	rating*	comments
Education Potential	L	no parking; public easements to some of W24
Recreation	L	limited public access; no established trails
Aesthetic Quality	H	large size; noisy thoroughfare (helps buffer noise) yard debris; view-shed Tual.-Sher. Rd.

IMPACTS: yard debris dumped on fill slopes on the east side; invasive species; creek channelized in lower portion; noisy thoroughfare

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H6	**SITES:** F27, W26	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Northwest of 105th/Blake St		**Adjacent Land Use:** Residential	**Acres:** 6.05

GENERAL DESCRIPTION: H6 is a short reach of Hedges Creek southwest of 108th. It is bounded by industrial development on the west and residential development in other directions. A well-developed riparian canopy borders the stream on the south side and shades the stream and promotes water quality protection. It extends into a mixed deciduous/coniferous woodland to the south and southeast. The multi-aged and multi-layered canopy provides a variety of food and cover for wildlife adjacent to Hedges Creek. The floodplain is broad enough to provide water quality and hydrologic control functions.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation; water
Fish Habitat	H	potential; perennial stream
Ecological Integrity	L	invasive ivy & blackberry; culverted on east & west
Connectivity	ML	isolated by roads (W26); connected to larger forest
Uniqueness	L	to the south (F27)
Water Quality	H	
Hydrologic Control	H	broad floodplain in places broad floodplain; retains surface water

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	H	separates industrial from residential uses

IMPACTS: invasive species (blackberry and ivy)

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H7	**SITES:** W27, F28	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Ibach Park vicinity southeast of 105th Avenue/Blake St.			
Adjacent Land Use: Residential			**Acres:** 10.71

GENERAL DESCRIPTION: H7 includes a reach of Hedges Creek located mostly in Ibach Park southeast of 105th Avenue. The stream flows through an incised channel with steep banks. The floodplain is approximately 50 ft wide. Vegetation in the floodplain has been severely disturbed by sewerline construction and is dominated by Himalayan blackberry and red alder. Adjacent hillslopes are dominated by red alder, Douglas fir, and Himalayan blackberry with a variety of shrubs. Groundcover also includes sword fern, fringe cup, trillum, waterleaf, and English ivy. Hillslope vegetation helps protect water quality but could be improved. Land adjacent to the top of slope is typically plowed or residential. Soft path trails wind through the floodplain and on the northern hillslope.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	Diverse structure and food resources with water; reduced food and cover due to dense Himalayan blackberry.
Fish Habitat	H	Pacific lamprey, reticulated sculpin, crayfish (ODFW)
Ecological Integrity	L	Canopy native, Himalayan blackberry abundant due to sewerline.
Connectivity	H	Stream, contiguous forest, large size.
Uniqueness	M	Skunk cabbage wetland.
Water Quality	M	Seeps, urban runoff; floodplain broad but incised channel.
Hydrologic Control	M	Floodplain retains water; channel meanders.

SOCIAL VALUES:	rating*	comments
Education Potential	H	Public park, public acces; high wildlife habitat value.
Recreation	H	Trails existing and proposed; high wildlife habitat value.
Aesthetic Quality	H	Large size, diverse canopy.

IMPACTS Surface runoff, invasion of Himalayan blackberry.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H8	**SITES:** W29, F31	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Hedges Creek north of Taylors/Ibach			
Adjacent Land Use: Residential			**Acres:** 1.58

GENERAL DESCRIPTION: This stream corridor is bordered by residences to the north and Ibach Road to the south. Water is piped from the head waters of Hedges Creek (W47) to W29. The channel averages 5 ft wide and meanders through a floodplain that ranges from 15 to 20 ft wide. Rock dams have been placed in the streambed to prevent erosion. Wetlands are limited to the channel margins where scattered clumps of lady fern, water parsley, and/or American speedwell occur. Hillslope vegetation is dominated by mature Douglas fir (≤ 4 ft dbh), Pacific dogwood, Indian plum, vine maple, sword fern, miner's lettuce, and fringe cup. A variety of other species are also present. English ivy and Himalayan blackberry are present and should be controlled to prevent their spread.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	Permanent water; diverse food and cover; narrow corridor
Fish Habitat	H	Potential; perennial stream
Ecological Integrity	M	Himalayan blackberry and ivy present.
Connectivity	L	
Uniqueness	H	4 ft. dbh Douglas fir.
Water Quality	L	Limited fringe wetlands.
Hydrologic Control	M	Rock dams retain some water.

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access; steep slopes.
Recreation	M	Neighborhood Greenway
Aesthetic Quality	H	View from Ibach Street; separates Ibach Street from residences

IMPACTS: Soil compaction due to pedestrians.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H9 **SITES:** F32, F33, M2, W32, W33 **1995 Inventory Map:** SW **Aerial No:** 4

Location: Tonquin Area, west of 108th Ave.

Adjacent Land Use: Agr., Industrial, Residential **Acres:** 91.52

GENERAL DESCRIPTION: H9 includes a large mixed multi-layered deciduous/coniferous woodland adjacent to a tributary of Hedges Creek in the Tonquin area. The Oregon Electric (Burlington Northern) railroad line bisects the unit. The large size of the forest supports interior forest species (ie. thrush) as well as deer. The site is unique due to vegetation and soil type; it includes rocky outcrops and plant communities associated with shallow, rocky soils that were exposed during the Pleistocene by floods. It borders an active quarry located to the west and rural residential to the east.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation; water
Fish Habitat	H	potential; perennial stream
Ecological Integrity	H	pockets of invasives; mostly native species
Connectivity	H	large size
Uniqueness	H	unique plant communities (M2, F32); rounded boulders, rock outcrops
Water Quality	H	large shallow pond with broad emergent fringe
Hydrologic Control	H	large pond retains surface water; restricted downstream

SOCIAL VALUES:	rating*	comments
Education Potential	H	unique site
Recreation	L	No public access
Aesthetic Quality	H	large size; viewable from residential zoned land to the east (108th)

IMPACTS: potential water quality impacts from railroad; debris such as railroad ties disposed of in W32; a practice firing range is located southwest of unit within hearing distance.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**SITE:** W25	**1995 Inventory Map:** Southwest	**Aerial No:** 4
Location: Northwest of Industrial Way			
Adjacent Land Use: Industrial			**Acres:** 5.37

GENERAL DESCRIPTION: W25 is a pond created by damming Hedges Creek. It's surrounded by industrial development and a mowed lawn, picnic area, and boat launch. It is not open for public use. Dominant emergent vegetation fringing the pond includes reed canarygrass and soft rush.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	Permanent water; limited food and cover resources.
Fish Habitat	H	potential; perennial water
Ecological Integrity	L	seeded; mowed
Connectivity	L	Surrounded by industrial development.
Uniqueness	L	
Water Quality	M	pollutants settle; nutrients absorbed by emergent
Hydrologic Control	H	fringe dammed; retains water

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	M	surrounding industry use.
Aesthetic Quality	M	For surrounding industry workers

IMPACTS: surrounding vegetation is maintained for picnicking and landscaping and not for wildlife

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**SITE:** W28	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Ibach Greenway		**Adjacent Land Use:** Residential	**Acres:** 0.77

GENERAL DESCRIPTION: This stream corridor is 25-50 ft wide and has been impacted by sewerline/greenway easement and is surrounded by residential development. The stream channel averages 5 ft across. The canopy is dominated by red alder and includes willow and cottonwood. The shrub understory is dominated by pockets of Himalayan blackberry. Emergent vegetation along the stream is diverse and includes bulrush, speedwell, meadow foxtail, skunk cabbage, bittersweet nightshade, water parsley, cattail horsetail and reed canarygrass.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	Permanent water; limited food and cover resources.
Fish Habitat	H	Pacific lamprey (observed by residents)
Ecological Integrity	L	Himalayan blackberry is dominant.
Connectivity	M	Surrounded by residential development; connects H7 & H8
Uniqueness	L	
Water Quality	L	Limited fringe wetlands.
Hydrologic Control	L	

SOCIAL VALUES:	rating*	comments
Education Potential	M	Neighborhood greenway; impacted habitat
Recreation	H	Bicycles, soft path trail.
Aesthetic Quality	H	For surrounding residents.

IMPACTS: Bikes have compacted soils.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**WETLAND:** W36	**1995 Inventory Map:** Northwest	**Aerial:** 1
Location: WIA between Leveton and Herman Rds, E of 119th			
Adjacent Land Use: Industrial, Agr.			**Acres:** 34.48

GENERAL DESCRIPTION: W36 is an agricultural area that has been ditched and possibly tiled. Most of the wetland is dominated by reed canarygrass. There are also two small pockets of black hawthorn on either side of 118th. Water drains to the east to a detention/treatment pond; then it is culverted beneath Herman Rd. where it flows south and east to Hedges Creek. The ditch on the north end and a portion of the emergent habitat connected to it will be filled and emergent wetlands will be created adjacent to existing wetlands on both sides of 118th.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	limited food and cover resources.
Fish Habitat	H	potential; perennial stream
Ecological Integrity	L	reed canarygrass is dominant
Connectivity	L	Surrounded by agr. and industrial development
Uniqueness	L	
Water Quality	M	broad floodplain; limited water
Hydrologic Control	M	detention area but located in upper watershed

SOCIAL VALUES:	rating*	comments
Education Potential	L	limited public access; undeveloped city owned Greenway
Recreation	L	limited undeveloped public access
Aesthetic Quality	M	large open space, no garbage, tranquil

IMPACTS: invasive reed canarygrass

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**WETLAND:** W40	**1995 Inventory Map:** Southwest	**Aerial No:** 2
Location: SE of Tualatin-Sherwood Rd/Teton Rd.			
Adjacent Land Use: Industrial			**Acres:** 4.80

GENERAL DESCRIPTION: W40 is an isolated wetland in the Hedges Creek Drainage. Hydrology has been impacted by historical agricultural practices (drainage tile) and the construction of Tualatin-Sherwood Rd. Wetland vegetation is dominated by reed canarygrass. A water quality/detention pond is located in the northwest corner of the site where vegetation has been planted.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	limited food and cover resources; adjacent to major
Fish Habitat	L	road
Ecological Integrity	L	isolated
Connectivity	L	reed canarygrass is dominant
Uniqueness	L	Surrounded industrial development
Water Quality	M	
Hydrologic Control	L	treats runoff before water discharges to Hedges Cr. isolated

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	L	small

IMPACTS: invasive species; field to east has been tiled

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**WETLAND:** W43	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: Northeast of 118th/Myslony		**Adjacent Land Use:** Industrial	**Acres:** 0.15

GENERAL DESCRIPTION: W43 is a small scrub-shrub wetland. Vegetation is dominated by black hawthorn and meadow foxtail. W43 is isolated and of low environmental and social values.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	limited food and cover resources; isolated
Fish Habitat	L	no water
Ecological Integrity	L	isolated
Connectivity	L	surrounded by industrial development
Uniqueness	L	
Water Quality	L	isolated
Hydrologic Control	L	isolated

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	L	small

IMPACTS: invasive species; field to east has been tiled

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**WETLAND:** W44	**1995 Inventory Map:** NW	**Aerial No:** 1
Location: Northeast of 118th/Myslony		**Adjacent Land Use:** Industrial	**Acre:** filled

GENERAL DESCRIPTION: W44 is an isolated wetland which drains into a water quality treatment swale and then continues to Hedges Creek. It is surrounded by fill and industrial development.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	limited food and cover resources; isolated
Fish Habitat	L	isolated; limited water
Ecological Integrity	L	isolated
Connectivity	L	surrounded by industrial development
Uniqueness	L	
Water Quality	L	isolated; limited to parking lot runoff
Hydrologic Control	L	isolated

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	L	small

IMPACTS: invasive species; field to east has been tiled

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**WETLAND:** W46	**1995 Inventory Map:** Southwest	**Aerial No:** 4
Location: South of bus parking area; Industrial Way/108th			
Adjacent Land Use: Industrial			**Acres:** 0.05

GENERAL DESCRIPTION: This very small wetland is surrounded by fill. It is isolated from other wetlands and has limited resource values.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	limited food and cover resources.
Fish Habitat	L	too isolated and disturbed
Ecological Integrity	L	reed canarygrass is dominant
Connectivity	L	Surrounded by fill and industrial development
Uniqueness	L	
Water Quality	L	isolated
Hydrologic Control	L	isolated

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	L	small; fill material

IMPACTS: fill

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**UPLAND:** F37	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: Southwest of Tualatin Rd/108th		**Adjacent Land Use:** Industrial	**Acres:** 2.78

GENERAL DESCRIPTION: F37 is in the Hedges Creek drainage basin. It is a small isolated mixed deciduous/coniferous woodland surrounded by agricultural and industrial land (OKI). The canopy is dominated by maturing Douglas fir and big leaf maple trees. The understory is dominated by sword fern and English ivy. Topography is undulating and typical of a headwater area; however, surrounding agricultural practices have modified drainage.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	diverse vegetation; isolated without water
Ecological Integrity	L	extensive English ivy
Connectivity	L	isolated by agricultural and industrial uses
Uniqueness	L	disturbed
Water Quality Protection	NA	not riparian
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	M	aesthetic for local industry

IMPACTS: invasive ivy

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H	**UPLAND:** F40	**1995 Inventory Map:** Southwest	**Aerial No:** 4
Location: Southwest of Tualatin-Sherwood/Teton			
Adjacent Land Use: Industrial			**Acres:** 2.44

GENERAL DESCRIPTION: F40 is a small isolated woodland surrounded by industrial development and on the south and east by a broad band of Himalayan blackberry. Dominant canopy species include oak, ponderosa pine and Scouler's willow. The understory is dominated by snowberry, English ivy, and a variety of wildflowers.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	diverse vegetation; isolated without water
Ecological Integrity	L	extensive English ivy and blackberry
Connectivity	L	isolated by industrial uses
Uniqueness	L	disturbed
Water Quality Protection	NA	isolated; not riparian
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	M	aesthetic for local industry

IMPACTS: invasive ivy

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: LO1 **SITES:** F30, W41, W42	**1995 Inventory Map:** Central & East	**Aerial No:** 3
Location: North of GI Joes	**Adjacent Land Use:** Industrial, Residential	**Acres:** 3.50

GENERAL DESCRIPTION: Unit LO-1 includes a coniferous woodland that is contiguous with a spring and pond and adjacent to a channelized stream corridor. This unit is located east of Interstate-5 and is surrounded by industrial and residential development. It is isolated due to development which reduces its environmental values. Water quality has also been degraded by historical industrial practices.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	diverse vegetation; poor water quality; isolated
Ecological Integrity	L	invasive ivy and blackberry; isolated
Connectivity	L	isolated by industry and freeway
Uniqueness	L	
Water Quality	LM	no floodplain but ponded area; industrial runoff
Hydrologic Control	L	upper watershed

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	H	noisy; forest helps buffer noise, aesthetic for workers; view-shed of I-5

IMPACTS: degraded water quality; noisy thoroughfare; excessive runoff flows into pond and has raised water level causing mortality of Douglas firs

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: N1 **SITES:** W1, W2, F1 **1995 Inventory Map:** Central & East **Aerial No:** 3

Location: Lower Nyberg Creek: 65th Ave. to the Tualatin River

Adjacent Land Use: Undeveloped park (Brown's Ferry); agriculture. **Acres:** 12.94

GENERAL DESCRIPTION: N1 is lower Nyberg Creek between 65th and the Tualatin River. The creek is channelized between 65th and Nyberg Lane and floods its banks into a broad emergent wetland (W2) dominated by meadow foxtail, reed canarygrass, and soft rush. The meadow has been used for pasture and is presently "grazed" by a flock of domestic geese. An excavated pond with islands is located on the east end. Much of the pasture is flooded in the winter and waterfowl such as wigeon and mallard are common. North of Nyberg Lane (Browns Ferry Park) the stream meanders through its natural channel to the Tualatin River. The narrow riparian corridor contains diverse vegetation including Oregon ash, rose, ninebark, soft rush and bulrush in the floodplain and big leaf maple, Douglas fir, red hawthorn and Himalayan blackberry (to name a few species) on the hillslopes. Surrounding the stream corridor is a meadow dominated by meadow foxtail and tall fescue which is currently mowed at least once a year.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	Winter waterfowl habitat; some nesting (mallard, Canadian goose, teal, killdeer). Permanent water.
Fish Habitat	H	Potential; perennial stream
Ecological Integrity	M	Floodplain disturbed; vegetation dominated by reed canarygrass; forest canopy (W1) native species.
Connectivity	H	Connected to the Tualatin River and large open meadow.
Uniqueness	L	Broad emergent floodplain. (W2)
Water Quality	H	Broad wetland located in floodplain downstream of
Hydrologic Control	H	major runoff. (W2)

SOCIAL VALUES:	rating*	comments
Education Potential	H	W1 is presently used by Willowbrook - a summer arts & natural history camp; near Bridgeport Elem.
Recreation	H	W1 is an undeveloped park. (Brown's Ferry Park)
Aesthetic Quality	H	Large size (W2); scenic corridor (W1)

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: N2	**SITES:** W3, F2	**1995 Inventory Map:** Central & East	**Aerial No:** 3
Location: Nyberg Creek and adjacent lands: I-5 to 65th Ave.			
Adjacent Land Use: Multi-family residential (south); commercial (north); Greenway			**Acres:** 33.19

GENERAL DESCRIPTION: N2 is a reach of Nyberg Creek located between Interstate 5 and 65th. The creek is channelized throughout this reach and floods its banks into a broad emergent floodplain with numerous connected ponds. A small forested seasonal tributary is located in the southwest corner (F2). Most of the adjacent uplands are fill slopes with dense blackberry thickets. The small riparian corridor surrounding the tributary contains more diverse vegetation including red alder, Himalayan blackberry, western red cedar, big leaf maple, cherry, honeysuckle, and sword fern. The eastern half of W3 is owned and maintained by The Wetlands Conservancy (TWC). TWC has planted a variety of trees and shrubs and installed nest boxes to improve wildlife habitat. Greenways (with public access easements) are located along the creek and south of the wetland boundary.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	Winter waterfowl with some nesting species; permanent water, seeds and invertebrates; cover available for small wildlife species, habitat mosaic; limited upland cover
Fish Habitat	H	Potential; perennial stream
Ecological Integrity	L	Vegetation dominated by non-native species.
Connectivity	M	Large size; fragmented by I-5 & 65th.
Uniqueness	L	
Water Quality	H	Broad wetland located in floodplain downstream of major runoff.
Hydrologic Control	H	Stream channelized but floods into broad wetland area.

SOCIAL VALUES:	rating*	comments
Education Potential	H	The Wetlands Conservancy; soft path trails, bird boxes.
Recreation	H	Passive: bird watching; trails.
Aesthetic Quality	H	Large open space with open water and emergent vegetation; scenic view from I-5.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: N3	**SITES:** W4, F3	**1995 Inventory Map:** Southwest	**Aerial No:** 2
Location: Nyberg Creek and adjacent lands between Martinazzi and I-5; south and southeast of Fred Meyers			
Adjacent Land Use: Commercial.			**Acres:** 15.76

GENERAL DESCRIPTION: N3 is a reach of Nyberg Creek between Martinazzi and Interstate 5. The creek has been channelized throughout the site. Beaver are active in this reach and have built dams across the creek that have raised water levels and caused flooding to the south. Vegetation on the southern hillslopes is dominated by red alder and Himalayan blackberry. Wetland vegetation is dominated by Pacific red willow, red alder and black cottonwood in wetland forest areas and reed canarygrass, mannagrass, American speedwell, small-fruited bulrush, and meadow foxtail in emergent areas. The southwest end of the site is a forested hillslope (F3). The forest provides food, cover, and nesting opportunities for small wildlife species that obtain refreshment from the creek.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	Permanent water; diverse food and cover where Himalayan blackberry is not dominant.
Fish Habitat	H	Potential; perennial stream
Ecological Integrity	M	Canopy mostly native species; understory contains pockets of native species.
Connectivity	M	Surrounded by major streets; large size; I-5 bridged over wetlands.
Uniqueness	L	
Water Quality	H	Broad floodplain helps filter nutrients and sediments.
Hydrologic Control	H	Beaver dams help retain water and emergent wetland holds water.

SOCIAL VALUES:	rating*	comments
Education Potential	L	No access; no trails.
Recreation	L	No access; no trails.
Aesthetic Quality	H	Scenic view from I-5

IMPACTS: Stormwater runoff from large commercial parking lots. Beaver dams across creek causing flooding of red alder trees which might kill the trees. Beaver also have harvested cottonwood trees. There is a potential of trees falling into the Fred Meyer parking lot to the north.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: N	**SITE:** W5	**1995 Inventory Map:** Southwest	**Aerial No:** 2
Location: Upper Nyberg Creek: Boones Ferry Road to Martinazzi.			
Adjacent Land Use: Commercial.			**Acres:** 0.71

GENERAL DESCRIPTION: W5 is a reach of Nyberg Creek between Boones Ferry Road and Martinazzi Avenue. It also includes a small depression just west of Boones Ferry. Dominant land use surrounding this reach is commercial. Vegetation in the narrow floodplain is dominated by reed canarygrass and small fruited bulrush; there is limited vegetation in the channel. Most adjacent land is developed but a maintained lawn is located adjacent to the stream at Tonka Road. Himalayan blackberry has recently been removed from the stream banks west of Martinazzi Square. Hillslopes at Martinazzi Square are planted with English ivy and red-osier dogwood.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	Very limited food and cover; surrounded by dense urban development.
Fish Habitat	H	Potential; perennial stream
Ecological Integrity	L	Dominated by reed canarygrass and ornamentals.
Connectivity	M	little riparian vegetation.
Uniqueness	L	
Water Quality	ML	≈ 20 ft floodplain; slopes eroding.
Hydrologic Control	M	Some detention; concrete weir west of Martinazzi.

SOCIAL VALUES:	rating*	comments
Education Potential	L	Very narrow corridor. Urbanized.
Recreation	M	Urbanized; Greenway with easements
Aesthetic Quality	M	Very urban. Potential aesthetic values for community with restoration.

IMPACTS: Stormwater runoff form parking lots, railroad, and roof drains.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: N	**SITE:** W6	**1995 Inventory Map:** Southwest	**Aerial No:** 2
Location: Todd Village Apartments		**Adjacent Land Use:** Residential.	**Acres:** 0.31

GENERAL DESCRIPTION: W6 is a narrow disturbed drainage surrounded by fill and dense Himalayan blackberry thickets. Excessive garbage, including 4 shopping carts, tires, and yard debris, has been dumped in the corridor. W6 is tiled to the west and north to SW Warm Springs

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	Too much debris; limited food and cover.
Fish Habitat	L	not perennial stream
Ecological Integrity	L	Himalayan blackberry is dominant.
Connectivity	L	Surrounded by development.
Uniqueness	L	
Water Quality	L	Limited floodplain.
Hydrologic Control	L	

SOCIAL VALUES:	rating*	comments
Education Potential	L	
Recreation	L	
Aesthetic Quality	M	Trees shade and separate apartments.

IMPACTS: garbage; invasive blackberry

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: N	**SITE:** F4	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Little Woodrose Park			
Adjacent Land Use: Residential (includes Church).			**Acres:** 6.27

GENERAL DESCRIPTION: Little Woodrose Park is a large isolated coniferous woodland located northeast of Boones Ferry/Killarney Ln. The woodland contains a central depression area but no wetlands. The canopy is dominated by Douglas fir, western red cedar, and cherry. The shrub understory is dominated by red elderberry, wild rose, and western hazelnut. Groundcover is rich with a variety of forbs and English ivy. The park is maintained by the Tualatin Rotary, Boy Scout Troop No. 35, and the City of Tualatin. Soft path trails wind through the park with access at the east and west ends. Portions of the park have been planted recently with native trees and shrubs. F4 provides an aesthetic value to the surrounding neighborhood as well as the entire community; it is within the view shed of Boones Ferry Road. It also provides educational opportunities for small groups like the Boy Scouts. Safe access is a problem for large groups. Large patches of English ivy should be removed to improve wildlife habitat.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	Provides food and cover; downed woody debris abundant; interior forest species (i.e. winter wren). No water on site, but large size and diverse canopy offer high wildlife habitat value.
Ecological Integrity	M	Canopy and shrubs native; understory large pockets of English ivy.
Connectivity	L	Surrounded by major roads and residential development.
Uniqueness	M	Abundant trillium; mature Douglas fir forest canopy.
Water Quality Protection	M	Natural duff and canopy provide filtering of rain water; recharge to groundwater.
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	H	Public access for small groups, trails.
Recreation	H	Loop trails (soft), maintained; access from Boones
Aesthetic Quality	H	Ferry, 90th and the church. No garbage; however yard debris piles from adjacent

IMPACTS Invasive English ivy planted in residences and escaped into forest.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: N	**SITE:** W39	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Northeast of Avery/93rd Ave			
Adjacent Land Use: Residential			**Acres:** 0.25

General Description: W39 is an isolated drainage swale. The intermittent stream flows northwesterly in a channel until it reaches the street and can't be followed. This forested wetland is dominated by Oregon ash, willow, and pockets of camas and is surrounded by upland forest with a dense understory of Himalayan blackberry. Once the blackberry is penetrated access improves.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	Water, moderate food and cover isolated by residences and streets.
Fish Habitat	L	Isolated by culverts/tiling
Ecological Integrity	L	Isolated
Connectivity	L	Isolated
Uniqueness	L	
Water Quality	L	Narrow floodplain.
Hydrologic Control	L	Upper watershed, tiled on both ends

SOCIAL VALUES:	rating*	comments
Education Potential	L	No access.
Recreation	L	No access.
Aesthetic Quality	M	Neighborhood aesthetics.

IMPACTS: invasive blackberry.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: S1 **SITES:** W7, W8, F13 **1995 Inventory Map:** Central & East **Aerial No:** 3, 6

Location: Saum Creek and adjacent woodland between Prosperity Park Rd and the Tualatin River.

Adjacent Land Use: Residential, I-5, Rural residential or vacant on east side; Greenway **Acres:** 17.32

GENERAL DESCRIPTION: Unit S1 is lower Saum Creek and adjacent woodlands between Prosperity Park Road and its confluence with the Tualatin River. It is surrounded by residential development. Saum Creek is a braided stream on the south end and changes to a single channel in a narrow to broad floodplain to the north. Hillslopes are moderate to steep and dominated by big-leaf maple, red alder, Douglas fir, and Himalayan blackberry. The stream is well shaded by the tree canopy and the forest broadens just west of the mouth. Trout and crayfish have been observed in this reach by residents. Great blue heron, belted kingfisher, bald eagles and osprey have also been observed near the mouth of Saum Creek by residents.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	Water, diverse food and cover resources (although reduced by blackberry); broad natural corridor
Fish Habitat	H	Potential; perennial stream
Ecological Integrity	M	
Connectivity	H	Contiguous with Tualatin River; large size.
Uniqueness	M	residents observed osprey and bald eagle
Water Quality	H	Broad floodplain absorbs sediments and nutrients from residential runoff.
Hydrologic Control	H	Broad floodplain retains water.

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access; no trails except in north end.
Recreation	M	Potential passive recreation; Greenway access
Aesthetic Quality	H	Separates residences.

IMPACTS Invasive Himalayan blackberry; fill adjacent to floodplain between Borland and Prosperity Park Road.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: S2 **SITES:** W9, F5, F6 **1995 Inventory Map:** Central & East **Aerial No:** 6

Location: Saum Creek and adjacent woodland between Prosperity Park Rd and 65th Ave.

Adjacent Land Use: I-205, Rural residential; agricultural **Acres:** 28.06

GENERAL DESCRIPTION: Unit S2 is Saum Creek and adjacent woodlands between Prosperity Park Road and 65th Ave. Rural residential development occurs to the north and I-205 is located to the south. This unit is in the view-shed of I-205. The riparian forest provides water quality protection and a sound barrier to help buffer freeway noise. The broad floodplain of W9 helps protect water quality and maintain hydrologic control. Access was denied on most of this unit.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	MH	Water, diverse food and cover resources (although reducedby blackberry); broad natural corridor
Fish Habitat	H	Potential; perennial stream
Ecological Integrity	L	
Connectivity	M	large size
Uniqueness	L	
Water Quality	H	broad floodplain absorbs sediments and nutrients from residential runoff.
Hydrologic Control	H	boad floodplain retains water.

SOCIAL VALUES:	rating*	comments
Education Potential	L	no public access
Recreation	L	no public access
Aesthetic Quality	H	view-shed of I-205

IMPACTS Invasive Himalayan blackberry; fill adjacent to floodplain between Borland and Prosperity Park Road.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: S3 **SITES:** F8, W10		**1995 Inventory Map:** Central & East	**Aerial No:** 6
Location: Northeast of I-5/I-205		**Adjacent Land Use:** Residential	**Acres:** 18.97

GENERAL DESCRIPTION: Unit S3 is located northeast of the I-205/I-5 interchange. F8 is connected to W10 by a planted highway shoulder. This unit provides wildlife habitat eventhough it is adjacent to the highway because of its large size and diverse plant communities. It is rated high for aesthetics due to its scenic qualities as viewed from the freeway and neighborhood, and as a noise and visual buffer between the freeway and residences. The broad floodplain provides high water quality protection and hydrologic control.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	MH	diverse vegetation; water; adjacent to freeway
Fish Habitat	H	potential; perennial stream
Ecological Integrity	L	freeway; blackberry
Connectivity	L	isolated by freeways and residential development
Uniqueness	L	
Water Quality	H	broad floodplain
Hydrologic Control	H	broad floodplain; retains surface water

SOCIAL VALUES:	rating*	comments
Education Potential	H	public access, environmental interpretation signs (W10)
Recreation	H	public access, established trails (W10 Atfalati Park)
Aesthetic Quality	H	separates freeway from residences; helps buffers noise

IMPACTS: invasive species (blackberry and ivy)

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: S4 **SITES** W11, F39, F10 **1995 Inventory Map:** Southwest **Aerial No:** 5

Location: Dakota Creek; southeast of Martinazzi/Blake to I-5.

Adjacent Land Use: Residential, I-5; Greenway (W11, F39) **Acres:** 7.09

GENERAL DESCRIPTION: Dakota Creek is a short tributary to Saum Creek (W11, F39). The upper end of the drainage has been filled and culverted for residential and greenway development. The remaining reach is surrounded by residential development and I-5. Floodplain vegetation is dominated by water parsley, lady fern, and red alder. The width of the floodplain and wetland ranges from approximately 5 ft on the upper end to approximately 30 ft south of Blake Street. Vegetation on the hillslopes is dominated by Himalayan blackberry, Indian plum, and red elderberry. Where Himalayan blackberry occurs, there is no duff and greater erosion potential. On its eastern boundary, adjacent to I-5, there is a contiguous coniferous/deciduous forest (F10) which parallels I-5. F10 is a mixed deciduous/coniferous woodland dominated by big leaf maple and Douglas fir with large clumps of trillium. It provies a buffer between the freeway and residences to the west.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	MH	Water; reduced value due to abundant blackberry.
Fish Habitat	L	isolated by culverts
Ecological Integrity	LM	Canopy native; Himalayan blackberry & English ivy common.
Connectivity	L	Stream corridor isolated by I-5 & dense residential development.
Uniqueness	LM	Large trillium clumps (F10)
Water Quality	M	Duff on slopes patchy due to disturbance; narrow floodplain.
Hydrologic Control	L	Narrow floodplain; capacity to hold water; however, no apparent barrier.

SOCIAL VALUES:	rating*	comments
Education Potential	L	No schools or public access. Neighborhood trails present south of Blake.
Recreation	H	Neighborhood; developed soft and paved paths south of Blake. (W11, F39); Greenway
Aesthetic Quality	H	Helps buffer freeway noise; scenicfiew from I-5 (F10).

IMPACTS: Runoff piped directly to stream on the south end and on north hillslope north of Blake.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: S	**SITE :** F11	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Northeast of Piute Court/Martinazzi Avenue			
Adjacent Land Use: Residential; Shaniko Greenway			**Acres:** 4.22

GENERAL DESCRIPTION: F10 is an isolated mixed deciduous/coniferous forest surrounded by residential development and I-5. The center of the site is in a depression and vegetation is dominated by deciduous trees (cherry, red alder, big leaf maple). The hillslopes surrounding the depression are forested with Douglas fir. Common shrub species include red elderberry, western hazelnut, and rose. Groundcover is dominated by sword fern and diverse assemblage of wildflowers including duckfoot trillium, spring beauty, wood violet, and waterleaf. Plant diversity provides food for a variety of wildlife. The multi-age and multi-layered structure of the forest provides diverse cover for wildlife. Large pockets of English ivy and vinca (periwinkle) are present but could easily be removed. Vegetation on the east end has been disturbed and Himalayan blackberry is dominant. This portion of the site should be replanted with native species after the blackberry is controlled.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	Isolated forest, diverse food and cover. Contiguous to water quality/detention pond.
Ecological Integrity	M	Generally native species and restorable.
Connectivity	L	Isolated.
Uniqueness	L	
Water Quality Protection	M	Surface runoff into site from culvert to the west.
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	Greenway access; no safe access
Recreation	M	Greenway access; trails present
Aesthetic Quality	H	Amenity to neighborhood; helps buffer freeway noise.

IMPACTS: Yard debris piles on slope; invasive English ivy and vinca (periwinkle) present.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: S	**SITE:** F7	**1995 Inventory Map:** Central & East	**Aerial No:** 3
Location: Northwest of Borland Road/57th Avenue			
Adjacent Land Use: Residential; adjacent to Hospital Campus			**Acres:** 4.65

GENERAL DESCRIPTION: F7 is a fragmented forest remnant nearly surrounded by residential development. The mixed deciduous/coniferous canopy consists of Douglas fir and red alder. A central depression area is an impenetrable thicket of Himalayan blackberry. Vegetation lacks diversity. The canopy provides shade for adjacent residences and food and cover for resident and migratory avian species.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	No water, dense blackberry thicket.
Ecological Integrity	L	Himalayan blackberry dominant.
Connectivity	L	Isolated by residential development and Borland Road.
Uniqueness	L	
Water Quality Protection	NA	
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No access.
Recreation	L	No access.
Aesthetic Quality	M	Trees aesthetic for immediate neighborhood; provide shade.

IMPACTS: invasive blackberry

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: S	**SITE:** F12	**1995 Inventory Map:** SW, Central & East	**Aerial No:** 5
Location: Interstate 5		**Adjacent Land Use:** Interstate 5	**Acres:** 11.96

GENERAL DESCRIPTION: F12 includes 2 forest remnants isolated and surrounded by I-5/I-205 interchange. Vegetation as viewed from nearby safe vantage points includes Douglas fir, cherry, Pacific dogwood, red alder, souler's willow, salal, snowberry, and sword fern. The site provides limited environmental value but is aesthetic and viewed by millions cruising I-5.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	Surrounded by Interstate 5.
Ecological Integrity	L	
Connectivity	L	Surrounded by Interstate 5.
Uniqueness	L	
Water Quality Protection	NA	
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No safe access; low habitat value.
Recreation	L	No safe access; low habitat value.
Aesthetic Quality	H	View shed of I-5; noise buffer.

IMPACTS: traffic noise

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: SD1	**SITES:** F35, F36, W31	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: East of Graham's Ferry/Helenius Road		**Adjacent Land Use:** Residential	**Acres:** 9.63

GENERAL DESCRIPTION: SD1 is located in Victoria Woods, a new Tualatin subdivision that is under construction. It includes rocky outcrops, a forested wetland swale, oak woodland, Douglas fir woodland, and a spring. Canopy vegetation is multi-layered and multi-aged and provides diverse food and cover resources for wildlife. Site soils are rocky and soils could have been scoured by Pleistocene floods. Vegetation in the oak woodland includes many shallow soil tolerant species typical of Pleistocene scabland.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation; water
Fish Habitat	L	headwaters; too ephemeral
Ecological Integrity	H	Scot's broom in disturbed areas of quarry
Connectivity	M	large size; becoming more isolated by development
Uniqueness	H	rock outcrops; unique vegetation on scabland
Water Quality	M	floodplain in places; upper watershed
Hydrologic Control	M	retains water pockets

SOCIAL VALUES:	rating*	comments
Education Potential	H	No public access; unique features
Recreation	L	No public access
Aesthetic Quality	H	large size, scenic values

IMPACTS: pockets of invasive species in oak woodland F36 (Scot's broom, Himalayan blackberry); disturbed by former quarry activities.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: SD	**SITE:** W30	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: between Grahams Ferry Rd. & Boones Ferry Rd			
Adjacent Land Use: Residential			**Acres:** 0.03

GENERAL DESCRIPTION: W30 is a small isolated forested depression. Water collects on the surface of basalt; forested rock slopes surround it. Victoria Woods residential development is currently being built around it. The seasonal ponding provides amphibian breeding habitat.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	Permanent water; diverse food and cover; isolated
Fish Habitat	L	too isolated and ephemeral
Ecological Integrity	L	Himalayan blackberry dominant in portions
Connectivity	L	isolated by residential development
Uniqueness	L	isolated small pond
Water Quality	L	isolated; headwaters
Hydrologic Control	L	small area; limited water

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access; disturbed plants
Recreation	L	No public access
Aesthetic Quality	M	Pond aesthetic for neighborhood

IMPACTS: invasive Himalayan blackberry

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: SD	**WETLAND:** W47	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: SW of Ibach Rd./Boones Ferry Rd.		**Adjacent Land Use:** Residential	**Acres:** 2.15

GENERAL DESCRIPTION: W47 is the headwaters of Hedges Creek. It receives drainage from east of Boones Ferry Rd. Most of the wetlands have been used to pasture cattle and horses. Portions of the stream have been channelized. The north end of the drainage is culverted to the north of Ibach St. Vegetation is dominated by beggar's tick, creeping buttercup, grazed grasses, and foxtail.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	limited food and cover resources; isolated
Fish Habitat	L	upper watershed; limited water; isolated
Ecological Integrity	L	grazed by livestock
Connectivity	L	isolated by residential development
Uniqueness	L	disturbed
Water Quality	L	headwaters of Hedges Creek
Hydrologic Control	L	headwaters of Hedges Creek; channelized

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	M	medium sized open space

IMPACTS: grazed; non-native species

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: SD	**UPLAND:** F34	**1995 Inventory Map:** Southwest	**Aerial No:** 5
Location: Southeast of 108th/Ibach		**Adjacent Land Use:** Residential, Agricultural	**Acres:** 10.84

GENERAL DESCRIPTION: F34 is a large multi-layered coniferous woodland surrounded by agricultural and residential land uses. The canopy is dominated by towering Douglas fir trees. The shrub and herbaceous understory is diverse. There are pockets of English ivy and scattered English holly that can easily be removed. A trail loops through the forest connecting a few residences through backyard access.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	M	diverse vegetation; large size; no water
Ecological Integrity	M	pockets of ivy can easily be removed
Connectivity	L	isolated by residential uses
Uniqueness	L	
Water Quality Protection	NA	isolated from water features
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access
Recreation	M	No public access; trail winds through forest
Aesthetic Quality	H	large size; limited weedy species

IMPACTS:

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T1 **SITES:** F14, F15, F43, W12, W13, W14, M1	**1995 Inventory Map:** Central & E	**Aerial:** 3
Location: North of Nyberg Lane	**Adjacent Land Use:** Residential	**Acres:** 17.91 + F43

GENERAL DESCRIPTION: Unit T1 includes a large woodland and forested wetlands, ponds, seeps, and springs. The forest is generally in excellent condition with a dominance of diverse native species. The woodland shades the river and helps protect and maintain water quality. It also provides food and cover opportunities for wildlife. Two residences are located in F15. All of the springs and ponds are connected to the river. W13 is a unique forested wetland for plant diversity and the dominance of native species. W14 provides winter waterfowl and potential fish habitat.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation; water
Fish Habitat	H	connected to Tualatin River
Ecological Integrity	MH	pockets of invasives in forest; W13 has high eco. int.
Connectivity	H	large size; contiguous with the Tualatin River
Uniqueness	H	native plant species richness (W13)
Water Quality	M	limited watershed
Hydrologic Control	L	lower "watershed"

SOCIAL VALUES:	rating*	comments
Education Potential	H	public access in Brown's Ferry Park; unique features
Recreation	H	public access in Brown's Ferry Park, Willowbrook camp
Aesthetic Quality	H	large size, scenic values

IMPACTS: pockets of blackberry and ivy in forest

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T2	**SITES:** F16, F43, W15, W16	**1995 Inventory Map:** Central& East	**Aerial No:** 3
Location: Northeast of Nyberg Lane / I-5	**Adjacent Land Use:** Residential, I-5	**Acres:** 13.26 + F43	

GENERAL DESCRIPTION: Unit T2 includes a large woodland with two contiguous ponds and the Tualatin River. The forest is generally in excellent condition with a dominance of diverse native species. The woodland shades the river and helps protect and maintain water quality. It also provides food and cover opportunities for wildlife. W15 is a small forested pond that provides nesting habitat for hooded mergansers and woodducks and a variety of small wildlife species. W16 is adjacent to the freeway and provides seasonal water, food, and cover for wildlife traveling the Tualatin River corridor.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation and communities; water
Fish Habitat	M	connected to Tualatin River
Ecological Integrity	MH	pockets of invasives in forest.
Connectivity	H	large size; contiguous with the Tualatin River
Uniqueness	M	W15
Water Quality Protection	H	riparian forest on riverbank
Hydrologic Control	L	lower "watershed"

SOCIAL VALUES:	rating*	comments
Education Potential	L	no public access
Recreation	M	no public access; Sweetbriar Inn; trail through forest
Aesthetic Quality	H	large size, scenic values; view-shed of I-5

IMPACTS: pockets of blackberry and ivy in forest

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T3	**SITES:** F17, F43	**1995 Inventory Map:** Northwest	**Aerial No:** 3
Location: North of Nyberg Rd between I-5 & Boones Ferry			
Adjacent Land Use: Comm., Residential			**Acres:** 5.06 + F43

GENERAL DESCRIPTION: Unit T3 contains a narrow band of riparian forest on the south bank of the Tualatin River with a contiguous mixed deciduous/coniferous woodland adjacent to I-5. The proximity of I-5 on the east and commercial and residential development to the south reduce wildlife habitat values.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	MH	reduced due to I-5 and development
Ecological Integrity	M	native canopy species
Connectivity	H	Tualatin River
Uniqueness	L	
Water Quality Protection	H	riparian forest adjacent to the Tualatin River
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	no public access
Recreation	L	no public access
Aesthetic Quality	H	viewshed of I-5 and Tualatin River

OTHER VALUES: F43 is important for shoreline stability. It also shades the river.

IMPACTS: Transient dwelling in F17

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T4	**SITES:** F18, F43	**1995 Inventory Map:** NW	**Aerial No:** 2
Location: Tualatin Community Park			
Adjacent Land Use: Park, Residential, Commercial, Industrial			**Acres:** 7.18 + F43

GENERAL DESCRIPTION: T4 is mostly located in Tualatin Community Park adjacent to the Tualatin River. This reach is bisected by the Southern Pacific Railroad line. It contains a very narrow band of riparian forest south of the tracks and more extensive forest (F18) north of the railroad. This mixed deciduous/coniferous riparian woodland is multi-layered and multi-aged with a variety of structure in the canopy and on the forest floor. Canopy vegetation is dominated by Douglas fir (3 ft+ dbh) and big leaf maple. The understory is dominated by Indian plum, snowberry, sword fern, wood violet and pockets of English ivy and Himalayan blackberry. The forest provides excellent food, cover, and nesting resources for wildlife. It is also a high use passive recreation area. A soft path winds through the forest and is used by pedestrians, joggers, and bicyclists.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse food and cover (F12); adjacent to Tualatin Park
Ecological Integrity	MH	native woodland species except on north end of F18
Connectivity	H	contiguous with river
Uniqueness	L	
Water Quality Protection	H	excellent forest cover on north end with forested banks
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	H	public access, parking, trails
Recreation	H	trails wind through F18
Aesthetic Quality	H	vegetation diverse (F18), adjacent to river

OTHER VALUES: Riparian vegetation is important for shading the river and shoreline stability.

IMPACTS: Invasive species (English ivy, Himalayan blackberry, English holly, red hawthorn, and Scot's broom); transients hang out at the picnic area south of the forest (F18).

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T5	**SITES:** W17, W18, W52, F43	**1995 Inventory Map:** Northwest	**Aerial No:** 2
Location: North of Tualatin Rd between Shawnee Trail and RxR			
Adjacent Land Use: Golf Course, Rural Residential			**Acres:** 6.49 + F43

GENERAL DESCRIPTION: T5 is a reach of the Tualatin River and associated natural area between Shawnee Trail and the railroad line to the east. It includes the floodplain wetlands (W18, W52), riparian forest (W45), and a large emergent marsh (W17). Adjacent land use is dominated by the golf course; rural residential is also present. W17 attracts a variety of wildlife species (sora rail, great blue heron, teal, woodduck, red-winged blackbird) due to the interspersion of a variety of wetland communities .

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse food and cover (W17); adjacent to river (F43, W18)
Fish Habitat	H	Tualatin River
Ecological Integrity	M	dominated by native species except north end of W18 and patches of reed canarygrass in W17
Connectivity	H	contiguous with Tualatin River; F43 important feature
Uniqueness	L	
Water Quality	M	small flood plain wetlands
Hydrologic Control	L	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access.
Recreation	M	private golf course (W18)
Aesthetic Quality	H	adjacent to river, riparian

OTHER FEATURES: F43 is important for shoreline stability. It also shades the River.

IMPACTS: Nutrient runoff from golf course.

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T6 **SITES:** F19, F20, F29, F43, W19, W20, W21 **1995 Inventory Map:** NW **Aerials:** 1 & 2

Location: NW of Jurgens Park

Adjacent Land Use: Res., Agr., Jurgens Park (portion of W21), Golf Course **Acres:** 39.04 + F43

GENERAL DESCRIPTION: T6 includes the Tualatin River floodplain north of Apache Bluff residential development and north of Hazelbrook Rd. The woodland pockets are located adjacent to the Tualatin River and provide a variety of food and cover resources for wildlife. Portions of W21 are unique including a small native wetland prairie remnant and a diverse forested wetland. W19 is owned by the Wetlands Conservany; enhancement projects and trail maintenance are annual events.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse vegetation; water
Fish Habitat	H	Tualatin River; W19 recently excavated and may have perennial water connected to the Tualatin (W20 & W21 do not contain fish habitat)
Ecological Integrity	MH	portions of W20,W21,F20 grazed; portion of W21 high
Connectivity	H	large size; contiguous with the Tualatin River (W50)
Uniqueness	H	native plant species richness (W21 portion)
Water Quality	M	limited watershed
Hydrologic Control	L	lower "watershed"

SOCIAL VALUES:	rating*	comments
Education Potential	H	public access in W19 and part of W21
Recreation	H	public access with trails in W19
Aesthetic Quality	H	large size, scenic values

IMPACTS: portions of W20, W21 and F20 grazed

* L = low; M = medium; H = high

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T7 **SITES:** W45, W51, F42, F43	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: West of Highway 99W	**Adjacent Land Use:** Residential	**Acres:** 4.77 + F43

GENERAL DESCRIPTION: T7 is a reach of the Tualatin River and associated natural areas west of Highway 99W. It includes two floodplain wetlands, riparian forest (F43), and a contiguous forest on the west end (F12). W45 is located adjacent to an RV Park by Highway 99W. No access was allowed on this site because construction was underway and the site had already been delineated. W51 is located in the northwest corner on the banks of the river and most likely is flooded when the river is high. F42 is located on a steep hillslope above W51; it provides shade for the river and prevents soil erosion.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	H	diverse food and cover adjacent to river
Fish Habitat	H	Tualatin River; W45 does not contain fish habitat
Ecological Integrity	H/L	F42 (high), W45 (low)
Connectivity	H	contiguous with Tualatin River
Uniqueness	H/L	F42--unique tree growth
Water Quality	M	floodplain wetlands
Hydrologic Control	L	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access.
Recreation	M	established trail in W51 and F42
Aesthetic Quality	H	viewshed of Hwy 99 and Tualatin River

OTHER FEATURES: F43 is important for shoreline stability. It also shades the water.

* L = low; M = medium; H = high

City of Tualatin Natural Resources Inventory

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: T	**SITES:** F38	**1995 Inventory Map:** Northwest	**Aerial No:** 1
Location: Northeast of Hwy 99W/Tualatin Road		**Adjacent Land Use:** Residential	**Acres:** 11.40

GENERAL DESCRIPTION: F38 is an early successional woodland located adjacent to Highway 99W. The canopy is open and extremely shrubby. Vegetation is dominated by big-leaf maple, Scouler's willow, Himalayan blackberry, bracken fern, and English ivy. This site provides limited resurce values although it does provide a scenic view from 99W.

ENVIRONMENTAL VALUES:	rating*	comments
Wildlife Habitat	L	isolated, no water
Ecological Integrity	L	dense Himalayan blackberry and ivy
Connectivity	L	surrounded by roads and residential development
Uniqueness	L	
Water Quality Protection	NA	isolated
Hydrologic Control	NA	

SOCIAL VALUES:	rating*	comments
Education Potential	L	No public access.
Recreation	L	No public access.
Aesthetic Quality	H	viewshed of Hwy 99

OTHER FEATURES: View-shed ofHighway 99W

IMPACTS: Herbicide spray of Himalayan blackberry on east forest margins adjacent to Rivercrest. Dense Himalayan blackberry throughout and English ivy on west end.

* L = low; M = medium; H = high