

CITY OF TUALATIN

NATURAL RESOURCE INVENTORY

and

LOCAL WETLANDS INVENTORY
"Off-site Option"

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Appendix A: Table 1: Tualatin Wetlands Acreage and Environmental and Social Values; Table 2: Tualatin Wetlands Classification and Acreage; Wetland Summary Sheets; Wetland Data Sheets of Selected Sites for Characterization and for Disturbed Sites.

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.

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 interspersed 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 interspersed 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	SE of 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

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 \approx 10 ft wide, channel 20 ft wide; water much lower than 2 weeks previous. Banks \approx 15 ft near mouth.

Dominant Vegetation: (* = major dominant)

Trees

* *Fraxinus latifolia*
Acer circinatum

Shrubs

Physocarpus capitatus
Rosa nutkana
Urtica dioica

Herbs/Emergents

Meadow:
* *Alopecurus pratensis*
* *Juncus tenuis*
Creek:
* *Juncus effusus*
* *Scirpus microcarpus*

Boundary Information: Topographic break; vegetation change \rightarrow 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
* *Salix* sp

* *Alopecurus pratensis*
* 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
Rosa sp
Salix lasiandra
Spirea douglassi

Graminae
* *Alopecurus pratensis*
Phalaris arundinacea
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

- * *Alnus rubra*
- * *Populus trichocarpa*
- * *Salix lasiandra*

Shrubs

- * *Rubus discolor*
- Salix sitchensis*

Herbs/Emergents

west

- * *Solanum dulcamara*
- * *Phalaris arundinacea*
- 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.

Tualatin Local Wetlands Inventory - Offsite Option

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.

Tualatin Local Wetlands Inventory - Offsite Option

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

Alnus rubra

Shrubs

Cornus stolonifera
Rubus discolor

Herbs/Emergents

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

* *Alnus rubra*
Fraxinus latifolia

Shrubs

* *Rubus discolor*
Sambucus racemosa
Salix piperi

Herbs/Emergents

* *Phalaris arundinacea*
* *Equisetum hyemale*
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
Fraxinus latifolia

Rubus discolor
Sambucus racemosa
Salix piperi

Athyrium filix-femina
Lysichitum americanum
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

- * *Alnus rubra*
- * *Fraxinus latifolia*
- * *Salix lasiandra*

Shrubs

- Acer circinatum*
- Rosa species*
- Rubus discolor*
- Rubus laciniatus*

Herbs/Emergents

- * *Phalaris arundinacea*
- * *Equisetum hyemale*
- * *Carex obnupta*
- * *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

- * *Alnus rubra*
- * *Salix sitchensis*
- * *Salix lasiandra*

Shrubs

- Spiraea douglasii*

Herbs/Emergents

- * *Phalaris arundinacea*
- Lysichitum americanum*
- 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 interspersions 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.

Tualatin Local Wetlands Inventory - Offsite Option

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

* *Alnus rubra*

Herbs/Emergents

* *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.

Tualatin Local Wetlands Inventory - Offsite Option

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

Alnus rubra
Fraxinus latifolia

Shrubs

Rubus discolor
Salix species

Herbs/Emergents

Athyrium filix-femina
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

- * *Alnus rubra*
- * *Fraxinus latifolia*

Riparian Shrubs

- * *Cornus stolonifera*
- Physocarpus capitatus*

Riparian Herbs

- * *Carex obnupta*
- * *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

Fraxinus latifolia
Salix species

Shrubs

Sambucus racemosa
Acer circinatum
Cornus stolonifera

Herbs/Emergents

* *Juncus effusus*
* *Alopecurus pratensis*
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

* *Fraxinus latifolia*

Shrubs

Physocarpus capitatus

Herbs/Emergents

* *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.

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

Hydrologic Source/Comments: Seep, perched surface water.

Dominant Vegetation: (* = major dominant)

Trees

* *Salix lasiandra*

Shrubs

* *Salix piperi*

Herbs/Emergents

* *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

* *Fraxinus latifolia*

Shrubs

* *Cornus stolonifera*

Herbs/Emergents

* *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 sediments).

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

Populus trichocarpa
[*balsamifera*]
Salix lasiandra
Fraxinus latifolia

Shrubs

* *Spiraea douglasii*
Rosa species
Crataegus douglasii
Cornus stolonifera
Salix piperi

Herbs/Emergents

* *Phalaris arundinacea*
Carex deweyana
Eleocharis palustris
Alopecurus pratensis
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. 5.71 mosaic) 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.

NOTE: TL100 on
MAP 25115AD was
discussed in a 4/16/90
letter from DSL AS "
NOT contain any wetland"
See WDB # 25.020

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

- * *Fraxinus latifolia*
- * *Alnus rubra*
- * *Salix lasiandra*

Shrubs

- Spiraea douglasii*
- Rosa* species
- * *Rubus discolor* (slope)
- Physocarpus capitatus*
- Cornus stolonifera*
- Salix piperi*
- Corylus cornuta*
- Acer circinatum*

Herbs/Emergents

- * *Phalaris arundinacea*
- * *Solanum dulcamara*
- Ranunculus repens*
- Eleocharis palustris*

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

* *Fraxinus latifolia*

Shrubs

* *Spiraea douglasii*
* *Salix piperi*
* *Cornus stolonifera*
Physocarpus capitatus
Rosa pisocarpa
Rosa nutkana

Herbs/Emergents

* *Phalaris arundinacea*
pockets of: *Carex sp.*,
Scirpus microcarpus, *Typha latifolia*, *Juncus effusus*,
Alopecurus geniculatus,
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

* *Alnus rubra*
* *Fraxinus latifolia*
Thuja plicata

Shrubs

Spiraea douglasii
Physocarpus capitatus
Cornus stolonifera
Salix species
Rubus discolor

Herbs/Emergents

* *Phalaris arundinacea*
* *Solanum dulcamara*
Urtica dioica
Veronica americana
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

Fraxinus latifolia
Alnus rubra
Acer circinatum
* *Salix lasiandra*

Shrubs

Herbs/Emergents

Phalaris arundinacea
Scirpus microcarpus
Ranunculus repens
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.

Tualatin Local Wetlands Inventory - Offsite Option

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 \approx 50 ft wide; broadens where runoff and/or tributaries enter main stem.

Dominant Vegetation: (* = major dominant)

Trees

* *Alnus rubra*

Shrubs

* *Rubus discolor*
Physocarpus capitatus

Herbs/Emergents

Hydrophyllum tenuipes
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, fringe cup, 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

* *Alnus rubra*
Populus trichocarpa
[*balsamifera*]
Salix lasiandra

Shrubs

* *Rubus discolor*
Sambucus racemosa
Crataegus monogyna
Rose sp

Herbs/Emergents

* *Lysichitum americanum*
Phalaris arundinacea
Typha latifolia
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 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.

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*

**Physocarpus capitatus*

Athyrium filix-femina

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

Tualatin Local Wetlands Inventory - Offsite Option

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

Alnus rubra
Populus trichocarpa
[*balsamifera*]
Fraxinus latifolia

Shrubs

Physocarpus capitatus
Rosa pisocarpa

Herbs/Emergents

Carex obnupta

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

* *Fraxinus latifolia*
* *Salix lasiandra*
Populus trichocarpa
[*balsamifera*]

Shrubs

* *Physocarpus capitatus*

Herbs/Emergents

* *Carex obnupta*
* *Solanum dulcamara*
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

* *Fraxinus latifolia* (and snags)

Shrubs

* *Salix piperi*
* *Salix lasiandra*
* *Spiraea douglasii*

Herbs/Emergents

* *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).

Tualatin Local Wetlands Inventory - Offsite Option

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 tilled 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

Alnus rubra

Shrubs

Rubus spectabilis
Cornus stolonifera
Physocarpus capitatus
Salix species

Herbs/Emergents

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: Myslony 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 tilled 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

Salix sp

Shrubs

Salix sp
Spiraea douglasii
Crataegus douglasii
Rubus discolor

Herbs/Emergents

* *Phalaris arundinacea*
* *Alopecurus pratensis*
* *Festuca rubra*
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 tilled 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
Salix lasiandra

grazed

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.

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

Salix lasiandra

Fraxinus latifolia

Shrubs

Salix piperi

Herbs/Emergents

Glyceria grandis [maxima]

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.

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

Fraxinus latifolia

Shrubs

Spiraea douglasii
Salix lasiandra
Salix sitchensis
Rosa nutkana

Herbs/Emergents

* *Phalaris arundinacea*
Ranunculus repens

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

Tualatin Local Wetlands Inventory - Offsite Option

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

Fraxinus latifolia
Salix species

Shrubs

Cornus stolonifera
Rubus discolor

Herbs/Emergents

Camas quamash
Equisetum species

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

Wetland Functions: Runoff; neighborhood aesthetics.

Tualatin Local Wetlands Inventory - Offsite Option

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

* *Alnus rubra*
Populus trichocarpa
[balsamifera]

Shrubs

Spiraea douglasii

Herbs/Emergents

* *Phalaris arundinacea*
* *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)

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

Hydrologic Source/Comments: Spring, stream.

Dominant Vegetation: (* = major dominant)

Trees

Shrubs

Herbs/Emergents

* *Populus trichocarpa*
[*balsamifera*]
Salix lasiandra
Alnus rubra

* *Solanum dulcamara*
Polygonum cuspidatum
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	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

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.

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

Populus trichocarpa
[balsamifera]
Fraxinus latifolia

Shrubs

Crataegus douglasii
Salix species

Herbs/Emergents

Phalaris arundinacea
Alopecurus pratensis
Typha latifolia
Carex species
Scirpus microcarpus

Boundary Information: Distinct topographic break; fill.

Wetland Functions: Drains into water quality treatment swale.

Tualatin Local Wetlands Inventory - Offsite Option

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

Fraxinus latifolia

Shrubs

Spiraea douglasii

Herbs/Emergents

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

Fraxinus latifolia
Populus trichocarpa
[*balsamifera*]

Shrubs

Spiraea douglasii

Herbs/Emergents

Ranunculus repens
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.

Tualatin Local Wetlands Inventory - Offsite Option

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

Populus trichocarpa
 [balsamifera]
Fraxinus latifolia
Salix species

Shrubs

Herbs/Emergents

* *Phalaris arundinacea*
* *Polygonum* 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 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

Populus trichocarpa

Shrubs

Salix sitchensis
Salix piperi

Herbs/Emergents

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.

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
Rubus spectabilis

Athyrium filix-femina
Veronica americana

Boundary Information: Distinct topographic break; vegetation changes to big leaf maple, Pacific waterleaf, Indian plum, fringe cup, 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

- * *Fraxinus latifolia*
- * *Alnus rubra*

Shrubs

- * *Physocarpus capitatus*
- Sambucus racemosa*
- Salix species*
- Acer circinatum*
- Rubus discolor*

Herbs/Emergents

- * *Phalaris arundinacea*
- Urtica dioica*
- Dactylis glomerata*

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

* *Fraxinus latifolia*

Shrubs

* *Spiraea douglasii*
Rubus discolor

Herbs/Emergents

* *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)

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	SE of 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., Warm Springs/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

City of Tualatin Natural Resources Inventory
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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
Wildlife Habitat	H	diverse vegetation; water
Fish Habitat	H	permanent water
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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 sediment and absorb nutrients.
Water Quality	M	Floodplain < 25 ft broad; helps retain water; located below major runoff
Hydrologic Control	M	

SOCIAL VALUES:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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 sightings 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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H4	SITES: F44, W34	1995 Inventory Map: Northwest	Aerial No: 1
Location: WIA: Myslony-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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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 to the south (F27)
Uniqueness	L	
Water Quality	H	
Hydrologic Control	H	broad floodplain in places broad floodplain; retains surface water

SOCIAL VALUES:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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, trillium, 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:	<u>rating*</u>	<u>comments</u>
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	
Uniqueness	M	Stream, contiguous forest, large size.
Water Quality	M	Skunk cabbage wetland.
Hydrologic Control	M	Seeps, urban runoff; floodplain broad but incised channel. Floodplain retains water; channel meanders.

SOCIAL VALUES:	<u>rating*</u>	<u>comments</u>
Education Potential	H	Public park, public access; 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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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

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

City of Tualatin Natural Resource Inventory

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

* cherry
* big leaf maple
red alder
black cottonwood

Shrubs

* Himalayan blackberry
* red hawthorn
English holly
Western hazelnut

Herbaceous

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.

City of Tualatin Natural Resource Inventory

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
serviceberry
Scot's broom

moss
onion
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

City of Tualatin Natural Resource Inventory

UPLAND RESOURCE SUMMARY SHEET

UNIT: H 9 **UPLAND:** F45 **Type:** Coniferous **Field Date:** 5-10-95

Location: NW of 108th/Helenius **Acres:** 4.06 **Adjacent Land Use:** Residential, Agricultural

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

GENERAL DESCRIPTION: F45 is a coniferous woodland surrounded by rural residential land uses. The canopy is dominated by towering Douglas fir trees up to 2.5 feet in diameter. The shrub understory has been cleared and is limited to a few scattered species. The understory is dominated by tall grass.

Dominant Vegetation (* major dominant):

Trees

* Douglas fir (2.5 ft dbh)

Shrubs

beaked hazelnut
Indian plum
tall Oregon grape

Herbaceous

sword fern
* orchard grass
nipplewort

Features: Coniferous forest canopy

Impacts: Lacks shrub understory and native herbaceous groundcover.

City of Tualatin Natural Resources Inventory

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: H9	UPLAND: F45	Type: Coniferous	Field Date: 5-10-95
Location: Northwest of Helenius Rd/108th		Adjacent Land Use: Residential, Agricultural	
Sherwood Quadrangle T2S R1W Sec.: 34 Quarter: NE		Map No: 5318	Aerial: 4

GENERAL DESCRIPTION: F45 is located in the headwaters of the Hedges Creek drainage basin. It is a 4 acre coniferous woodland surrounded by rural residential land. The canopy is dominated by maturing Douglas fir trees. The understory is dominated by grasses and widely scattered shrubs.

ENVIRONMENTAL VALUES:	<u>rating*</u>	<u>comments</u>
Wildlife Habitat	M	mature trees; limited shrubs; isolated without water
Ecological Integrity	L	shrub and herbaceous species limited or non-native
Connectivity	M	somewhat disrupted by rural residential uses
Uniqueness	L	disturbed
Water Quality Protection	NA	isolated from water resources
Hydrologic Control	NA	

SOCIAL VALUES:	<u>rating*</u>	<u>comments</u>
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	M	aesthetic for residents

IMPACTS: lack of native shrub and herbaceous understory

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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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 tilled. 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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	L	small

IMPACTS: invasive species; field to east has been tilled

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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
Education Potential	L	No public access
Recreation	L	No public access
Aesthetic Quality	L	small

IMPACTS: invasive species; field to east has been tilled

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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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. Connected to the Tualatin River and large open meadow.
Connectivity	H	
Uniqueness	L	Broad emergent floodplain. (W2)
Water Quality	H	Broad wetland located in floodplain downstream of major runoff. (W2)
Hydrologic Control	H	

SOCIAL VALUES:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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 from parking lots, railroad, and roof drains.

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

City of Tualatin Natural Resources Inventory

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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
Education Potential	H	Public access for small groups, trails.
Recreation	H	Loop trails (soft), maintained; access from Boones Ferry, 90th and the church.
Aesthetic Quality	H	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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
Education Potential	L	No access.
Recreation	L	No access.
Aesthetic Quality	M	Neighborhood aesthetics.

IMPACTS: invasive blackberry.

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

City of Tualatin Natural Resource Inventory

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

* red alder
Douglas fir
black cottonwood
cherry
big leaf maple
western red cedar

Shrubs

* Himalayan blackberry
red hawthorn
red elderberry

Herbaceous

English ivy

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.

City of Tualatin Natural Resource Inventory

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

* red alder
big leaf maple
cherry
western red cedar

Shrubs

* Himalayan blackberry

Herbaceous

lady fern
sword fern

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.

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
Wildlife Habitat	MH	Water, diverse food and cover resources (although reduced by 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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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 provides a buffer between the freeway and residences to the west.

ENVIRONMENTAL VALUES:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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; scenic view 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

City of Tualatin Natural Resources Inventory

ENVIRONMENTAL AND SOCIAL VALUES ASSESSMENT

UNIT: SD	UPLAND: F34	1995 Inventory Map: Southwest	Aerial No: 5
Location: Southeast of 108th/lbach		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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory
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 interspersed of a variety of wetland communities .

ENVIRONMENTAL VALUES:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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 Conservancy; enhancement projects and trail maintenance are annual events.

ENVIRONMENTAL VALUES:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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

City of Tualatin Natural Resources Inventory

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:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
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 resource values although it does provide a scenic view from 99W.

ENVIRONMENTAL VALUES:	<u>rating*</u>	<u>comments</u>
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:	<u>rating*</u>	<u>comments</u>
Education Potential	L	No public access.
Recreation	L	No public access.
Aesthetic Quality	H	viewshed of Hwy 99

OTHER 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.

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

City of Tualatin Natural Resource Inventory

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

* Douglas fir
cherry
madrone

Shrubs

(forest margins)
snowberry
beaked hazelnut
red hawthorn
Himalayan blackberry
Pacific blackberry
thimbleberry
woods rose

Herbaceous

nipplewort
fringecup
wild strawberry
Dewey's sedge
sweet cicely
cleavers

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

City of Tualatin Natural Resource Inventory

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

* ponderosa pine
* Oregon white oak
* Scouler willow
birch
black cottonwood
Douglas fir
madrone

Shrubs

* snowberry
beaked hazelnut
black hawthorn
ornamental hawthorn
Himalayan blackberry
Scot's broom
thimbleberry
Pacific ninebark

Herbaceous

* English ivy
fringecup
stream violet
white trillium
sword fern
Dewey's sedge
white inside-out flower
Henderson's sedge

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

Impacts: invasive ivy and blackberry

City of Tualatin Natural Resource Inventory

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

* red alder
Douglas fir
cherry
western red cedar
weeping willow

Shrubs

* Himalayan blackberry
* Indian plum
* red elderberry
beaked hazelnut
thimbleberry
vine maple
ornamental hawthorn
English holly

Herbaceous

English ivy
sword fern
water leaf

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.

City of Tualatin Natural Resource Inventory

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

- * big-leaf maple
- * Scouler willow
- cherry or plum
- Douglas fir
- western hemlock
- red alder
- western red cedar

Shrubs

- * Himalayan blackberry
- beaked hazelnut
- Scot's broom
- trumpet honeysuckle
- English holly
- red elderberry
- thimbleberry
- ornamental hawthorn
- salal

Herbaceous

- * English ivy
- * bracken
- sweet pea
- sword fern
- crane's-bill
- Dewey's sedge
- fringecup

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.

City of Tualatin Natural Resource Inventory

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

- * Douglas fir
- * big-leaf maple
- cherry
- black cottonwood

Shrubs

- beaked hazelnut
- thimbleberry
- Oregon grape
- ocean spray
- English holly
- wood rose

Herbaceous

- * sword fern
- * English ivy
- catchweed bedstraw
- white trillium
- white inside-out flower
- 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.

City of Tualatin Natural Resource Inventory

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

* Oregon white oak
madrone

Shrubs

* Oregon white oak
* poison oak
* snowberry
* Scot's broom
Saskatoon serviceberry
ocean spray

Herbaceous

red dead-nettle
miner's lettuce
orchard grass
rosy plectritis

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

Impacts: Invasive Scot's broom.

Conflicts: Proposed residential development.

City of Tualatin Natural Resource Inventory

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

* Douglas fir (3' dbh)
big-leaf maple

Shrubs

* Oregon grape
* beaked hazelnut
* salal
* poison oak
* oceanspray
Saskatoon serviceberry
snowberry
thimbleberry
rose
trumpet honeysuckle
mock orange
vine maple

Herbaceous

* sword fern
licorice fern
white trillium
giant trillium
Siberian springbeauty
feather false Solomon's seal
starry false Solomon's seal
western starflower
white inside-out flower
may lily
giant fawn-lily
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.

City of Tualatin Natural Resource Inventory

UPLAND RESOURCE SUMMARY SHEET

UNIT: SD	UPLAND: F34	Type: Coniferous	Field Date: 5-10-95
Location: SE of 108th/lbach		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

Douglas fir (4 ft dbh)
madrone
western flowering
dogwood
big-leaf maple

Shrubs

beaked hazelnut
snowberry
Indian plum
poison oak
ocean spray
wood rose
salal
red elderberry
thimbleberry
mock orange
English holly

Herbaceous

* sword fern
* white inside-out flower
white trillium
catchweed bedstraw
western starflower
feather false Solomon's
seal
English ivy
vanilla leaf

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

Impacts: Pockets of English ivy.

City of Tualatin Natural Resource Inventory

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

* madrone
big-leaf maple
Douglas fir

Shrubs

Indian plum
red elderberry
ocean spray
mock orange
poison oak
thimble berry
honey suckle
snowberry
Oregon grape
Pacific blackberry
sweetbriar rose
salal

Herbaceous

* moss
sword fern
Pacific waterleaf
starry false Solomon's
seal
shining crane's-bill
wild strawberry
Dewey's sedge
melica grass
cleavers

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.

City of Tualatin Natural Resource Inventory

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

* Douglas fir
* big-leaf maple
black cottonwood
cherry
western hemlock
Oregon white oak
western flowering
dogwood
Scouler willow

Shrubs

Indian plum
red elderberry
ocean spray
Pacific ninebark
poison oak
ornamental hawthorn
Himalayan blackberry
snowberry
tall Oregon grape
Pacific blackberry
Saskatoon serviceberry
sweetbriar rose
vine maple
thimbleberry
salal

Herbaceous

* sword fern
Pacific waterleaf
giant fawn-lily or
feather false Solomon's
seal
starry false Solomon's
seal
western starflower
miner's lettuce
shining crane's-bill
wild strawberry
Dewey's sedge
Siberian springbeauty
Oregon iris

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.

City of Tualatin Natural Resource Inventory

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 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.

Dominant Vegetation (* major dominant):

Trees

* Douglas fir
cherry
western flowering
dogwood

Shrubs

vine maple
Himalayan blackberry
Pacific blackberry
beaked hazelnut
Indian plum
snowberry
salal
Pacific ninebark

Herbaceous

* sword fern
* miner's lettuce
* fringe cup
English ivy
white inside-out flower
licorice fern
white trillium
moss

Features: Mature Douglas fir, aesthetic for neighborhood.

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

City of Tualatin Natural Resource Inventory

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

* Douglas fir (3' dbh)
big-leaf maple
cherry
western flowering
dogwood
Oregon ash

Shrubs

beaked hazelnut
Indian plum
red elderberry
poison oak
salal
Saskatoon serviceberry
snowberry
ocean spray
trumpet honeysuckle
Oregon grape
Himalayan blackberry

Herbaceous

* sword fern
licorice fern
catchweed bedstraw

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.

City of Tualatin Natural Resource Inventory

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

Douglas fir
red alder
big-leaf maple
Oregon ash
Scouler willow

Shrubs

Indian plum
red elderberry
Himalayan blackberry
snowberry
beaked hazelnut
rose
ornamental hawthorn
Scot's broom

Herbaceous

sword fern
fringecup
common scouring-rush
Dewey's sedge
starry false Solomon's
seal
catchweed bedstraw
Pacific bleeding heart

Features: Tualatin River.

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

City of Tualatin Natural Resource Inventory

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

* red alder
Douglas fir
big leaf maple

Shrubs

* Himalayan blackberry
Indian plum
vine maple
thimbleberry
ninebark
beaked hazelnut
Oregon grape

Herbaceous

waterleaf
sword fern
white trillium
fringecup
English ivy

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

Impacts: Invasive Himalayan blackberry dominates understory.

City of Tualatin Natural Resource Inventory

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

* Douglas fir
* big-leaf maple
red alder
madrone
western flowering
dogwood
cherry

Shrubs

* Himalayan blackberry
Indian plum
snowberry
Oregon grape
thimbleberry
English holly
beaked hazelnut

Herbaceous

* English ivy
white inside-out flower
Siberian springbeauty
sword fern
white trillium
sweet cicely
stream violet
fringecup

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

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

City of Tualatin Natural Resource Inventory

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

* Douglas fir
cherry
western flowering
dogwood
big-leaf maple
red alder

Shrubs

red elderberry
tufted hairgrass
beaked hazelnut
thimbleberry
ocean spray
English holly
Himalayan blackberry
fairy lantern

Herbaceous

* Pacific waterleaf
* English ivy
stinging nettle
white inside-out flower
white trillium
sword fern
bracken fern

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.

City of Tualatin Natural Resource Inventory

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

* Douglas fir
* cherry
Oregon white oak
western flowering
dogwood

Shrubs

* Oregon grape
Scouler willow
Nootka rose
cascara
beaked hazelnut
Himalayan blackberry
Pacific ninebark
poison oak
mock orange
snowberry
thimbleberry
salal
Saskatoon serviceberry
Indian plum

Herbaceous

* sword fern
* starry false Solomon's
seal white trillium
white inside-out flower
fringecup
giant fawn-lily
bracken fern

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.

City of Tualatin Natural Resource Inventory

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

Douglas fir
*Oregon white oak
Oregon ash
red alder
cherry
apple

Shrubs

Indian plum
rose
Saskatoon serviceberry
Himalayan blackberry

Herbaceous

sword fern
common camas

Features: High wildlife habitat values; contiguous to W35

Impacts: Cattle grazing

City of Tualatin Natural Resource Inventory

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

* Douglas fir (\approx 18 in. dbh)
* oak
black cottonwood
Oregon ash

Shrubs

poison oak
ocean spray
twinberry
mock orange
tall Oregon grape
red hawthorn
English holly
Indian plum
cascara
snowberry
Himalayan blackberry
western hazelnut
bald hip rose

Herbaceous

* western trillium
* duck foot
* miner's lettuce
sword fern
sessile trillium
iris
star-flowered solomon seal
false solomon's seal
sweet pea
grass

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.

City of Tualatin Natural Resource Inventory

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

* Douglas fir (2.5' dbh)
Oregon ash
ponderosa pine
Oregon white oak
big-leaf maple
cherry

Shrubs

* wood rose
* beaked hazelnut
* snowberry
Saskatoon serviceberry
ocean spray
Oregon grape
poison oak
Pacific blackberry
cascara
mock orange
gooseberry

Herbaceous

fringecup
catchweed bedstraw
sword fern
Siberian springbeauty
English ivy
Melica grass

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

Impacts: Pockets of English ivy.

City of Tualatin Natural Resource Inventory

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

- * Douglas fir
- * Oregon white oak
- * Oregon ash
- cherry or plum
- Scouler willow
- cascara

Shrubs

(< 12in tall, mostly sprouts from mowed bases.)

- red elderberry
- snowberry
- Indian plum
- Scouler willow
- cascara
- beaked hazelnut
- serviceberry
- poison oak

Herbaceous

- white trillium
- common thistle
- fringecup
- sword fern
- catchweed bedstraw
- wild strawberry
- Canada thistle
- starry false Solomon's seal
- feather false Solomon's seal
- 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.

City of Tualatin Natural Resource Inventory

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

* Douglas fir
western red cedar
grand fir
big-leaf maple

Shrubs

Indian plum
thimbleberry

Herbaceous

Siberian springbeauty
fringecup
sword fern
crane's-bill
stream violet

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

Impacts: Pasture for cattle.

City of Tualatin Natural Resource Inventory

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

Douglas fir
big-leaf maple
black cottonwood
Oregon ash
Oregon white oak

Shrubs

thimbleberry
snowberry
ocean spray
rose
Pacific ninebark
trumpet honeysuckle
poison oak
beaked hazelnut
salal
English holly
Himalayan blackberry

Herbaceous

sword fern
Dewey's sedge
white trillium
stream violet
starry false Solomon's
seal
fringecup
white inside-out flower
English ivy

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

Impacts: Limited

City of Tualatin Natural Resource Inventory

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

* Douglas fir (3' dbh)
* big-leaf maple
cherry
grand fir
Oregon ash
Scouler willow
apple
yew

Shrubs

* Himalayan blackberry
* Indian plum
* snowberry
beaked hazelnut
salal
vine maple
red elderberry
English holly
red hawthorn
wild rose
fairy lanterns
Oregon grape
salmonberry
ninebark
Scot's broom

Herbaceous

* ivy
* stream violet
* sword fern
fringecup
starry false Solomon's seal
feather false Solomon's seal
white trillium
white inside-out flower
wild ginger
Pacific waterleaf
Dewey's sedge
vanilla leaf
stinging nettles
grass
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.

City of Tualatin Natural Resource Inventory

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

* Douglas fir
* big-leaf maple
western red cedar
western flowering
dogwood
Oregon ash
grand fir

Shrubs

* snowberry
* Himalayan blackberry
poison oak
beaked hazelnut
tall Oregon grape
oceanspray
mock orange

Herbaceous

* sword fern
* shining crane's-bill
wild strawberry
Siberian springbeauty
miner's lettuce
stinging nettle
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.

City of Tualatin Natural Resource Inventory

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, fringe cup, 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

- * Douglas fir (3.5' dbh)
- * cherry
- big-leaf maple
- western flowering
- dogwood
- red alder
- Prunus sp.

Shrubs

- * beaked hazelnut
- * red elderberry
- * snowberry
- Oregon grape
- Indian plum
- casara
- red hawthorn
- Pacific blackberry
- vine maple
- oceanspray

Herbaceous

- * sword fern
- * fringe cup
- * Pacific waterleaf
- Dewey's sedge
- white trillium
- giant trillium
- starry false Solomon's seal
- American false hellebore
- slender toothwort
- 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.

City of Tualatin Natural Resource Inventory

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

* cherry
* big-leaf maple
Douglas fir
red alder

Shrubs

* Himalayan blackberry
* red elderberry
ornamental hawthorn
Pacific blackberry
oceanspray

Herbaceous

* sword fern
* fringecup
* English ivy
Dewey's sedge

Features: contiguous with F15 and M1.

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

City of Tualatin Natural Resource Inventory

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

* big-leaf maple
* red alder
Douglas fir
western red cedar

Shrubs

* red elderberry
* Indian plum
* Himalayan blackberry
vine maple
ornamental hawthorn

Herbaceous

Pacific waterleaf
fringecup
English ivy

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.

City of Tualatin Natural Resource Inventory

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

cherry
big leaf maple
Douglas fir
Pacific dogwood
red alder

Shrubs

salal
snowberry
Scouler's willow
Himalayan blackberry

Herbaceous

sword fern
stinging nettle (east island)
Siberian springbeauty

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

Impacts: I-5, I-205.

City of Tualatin Natural Resource Inventory

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

* Douglas fir
red alder
black cottonwood
cherry
willow
big leaf maple

Shrubs

red elderberry
western hazelnut
Oregon grape
English holly
snowberry
rose
Himalayan blackberry

Herbaceous

sword fern
Robert's geranium
English ivy
trillium
duckfoot
cleavers
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.

City of Tualatin Natural Resource Inventory

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

- * big leaf maple
- * Douglas fir

Shrubs

- * Himalayan blackberry
- * red elderberry
- rose

Herbaceous

- * trillium
- * slender-stemmed water leaf
- * sword fern
- * English ivy (in patches)
- Henderson's sedge
- cleavers
- stinging nettle
- duck foot
- reed canarygrass

Features: Wildlife habitat: large snags (\approx 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.

City of Tualatin Natural Resource Inventory

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

* Douglas fir (3' + dbh)
* red alder
cherry
western flowering
dogwood
big-leaf maple

Shrubs

* red elderberry
rose
Saskatoon serviceberry
Oregon grape
vine maple
thimbleberry
beaked hazelnut
snowberry

Herbaceous

* Siberian springbeauty
catchweed bedstraw
trillium
Pacific waterleaf
bracken fern
sword fern

Features: Helps buffer freeway noise.

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

City of Tualatin Natural Resource Inventory

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

Douglas fir (3' dbh)
red alder
Pacific dogwood
big leaf maple

Shrubs

Himalayan blackberry
(pockets)
red hawthorn
Oregon grape
Indian plum
red elderberry
woods rose
English holly

Herbaceous

white inside-out flower
stinging nettle
Pacific waterleaf
slender toothwort
Dewey's sedge
Siberian springbeauty
sword fern
white trillium
stream violet
English ivy

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

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

City of Tualatin Natural Resource Inventory

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

Douglas fir
red alder

Shrubs

* Himalayan blackberry
beaked hazelnut

Herbaceous

Features: Shade for neighborhood.

Impacts: Severely disturbed by invasive Himalayan blackberry.

City of Tualatin Natural Resource Inventory

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

* Douglas fir (3'dbh)
western flowering
dogwood
Oregon ash
cherry
big-leaf maple

Shrubs

red elderberry

Herbaceous

sword fern
Pacific waterleaf
white trillium
stinging nettle
English ivy
Siberian springbeauty
red dead-nettle
grasses

Features: Maturing Douglas fir.

Impacts: pockets of English ivy.

City of Tualatin Natural Resource Inventory

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

grand fir
Douglas fir
big-leaf maple
red alder
western red cedar

Shrubs

Himalayan blackberry
snowberry (scattered)
beaked hazelnut
thimbleberry

Herbaceous

sword fern
orchard grass
creeping buttercup
clover
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.

City of Tualatin Natural Resource Inventory

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

- * Douglas fir
- * western red cedar
- * cherry
- black cottonwood
- Pacific dogwood

Shrubs

- * red elderberry
- * wild rose
- * western hazelnut
- * cherry
- snowberry
- oceanspray
- Oregon grape
- salal
- red flowering currant
- red hawthorn
- English holly

Herbaceous

- * trillium
- * cleavers
- * Robert's geranium
- * English ivy (in pockets)
- sword fern
- bracken fern
- vanilla leaf
- duckfoot

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.

City of Tualatin Natural Resource Inventory

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.

City of Tualatin Natural Resource Inventory

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

western red cedar
big leaf maple
Douglas fir
black cottonwood
madrone

Shrubs

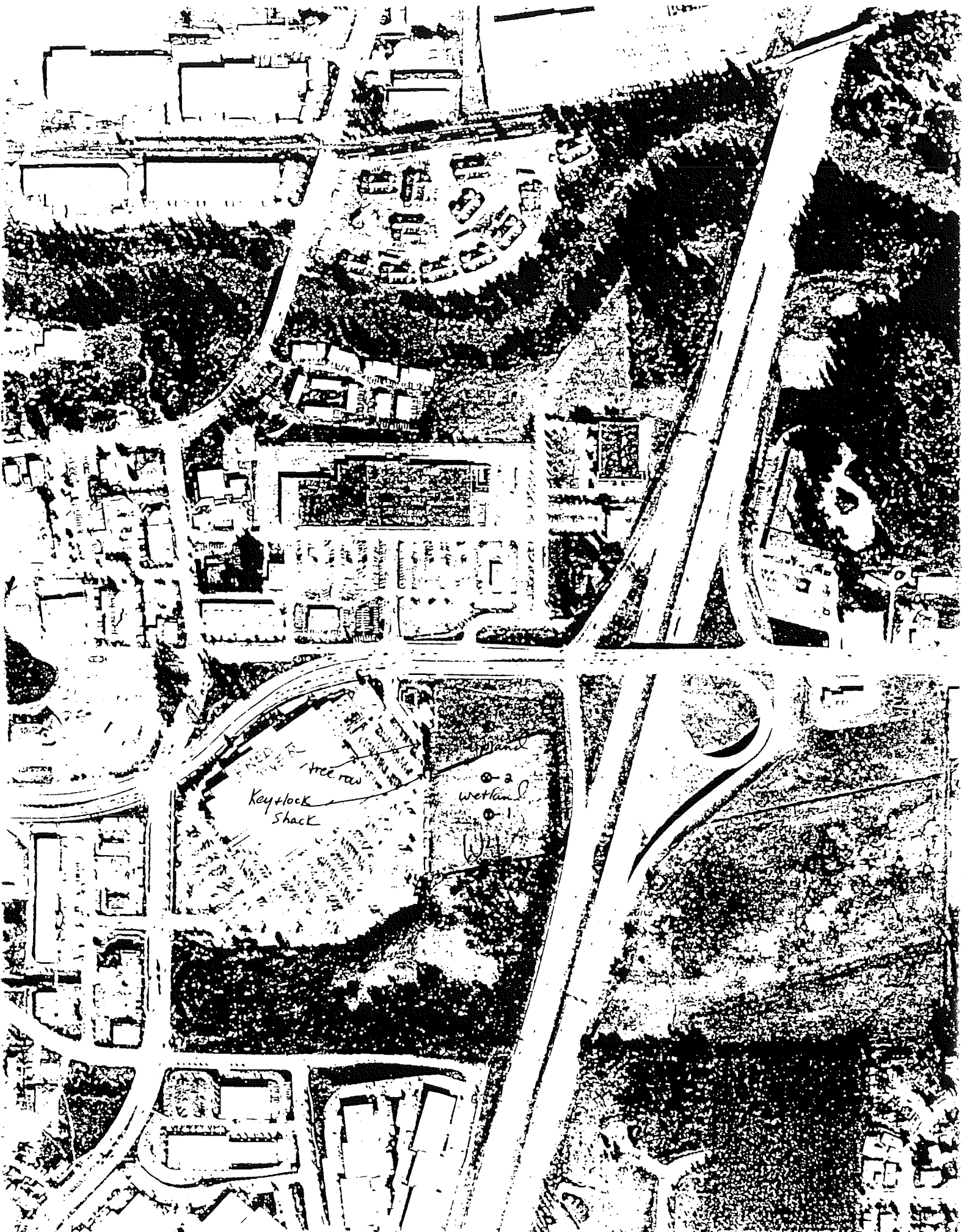
beaked hazelnut
* Himalayan blackberry

Herbaceous

* morning glory

Features: adjacent to W34

Impacts: disturbed by land clearing and invasive species.



Key+lock
Shack

Tree row

Wetland

1

2

W4

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

Forested Wetland
Characterization

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 Y Explain: _____

VEGETATION

*Dominant Plant Species	% Cover	Ind.	*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: <u>20</u>			Shrub/Sapling Stratum - % total cover: <u>40</u>		
1. <u>Carex demissa</u>	<u>100%</u>	<u>FAC-</u>	1. <u>Crataegus douglasii</u>	<u>10</u>	<u>FAC</u>
2. _____	_____	_____	2. <u>Rosa nutkana</u>	<u>20</u>	<u>FAC</u>
3. _____	_____	_____	3. <u>Douglas' spirea</u>	<u>30</u>	<u>FACW</u>
4. _____	_____	_____	4. <u>Rubus sp.</u>	_____	_____
5. _____	_____	_____	5. _____	_____	_____
6. _____	_____	_____	Tree Stratum - % total cover: <u>40</u>		
7. _____	_____	_____	1. <u>Fraxinus latifolia</u>	<u>90</u>	<u>FACW</u>
8. _____	_____	_____	2. <u>Populus tremula</u>	<u>10</u>	<u>FAC+</u>
9. _____	_____	_____	3. _____	_____	_____

Remarks: _____

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

Hydrophytic Vegetation Criterion Met? YES NO

SOILS

Mapped unit name: Cove Matches Profile? Y N

Taxonomy: Vertic Haplaguall Drainage Class: Poorly

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

- Histosol
- Histic Epipedon
- Sulfidic Odor
- < Prob. Aquic Moisture Regime
- Reducing Conditions (test)
- Gleyed
- Mottled (w/i 10")
- Concretions (w/i 3", > 2mm)
- Hi. Organic Cont. Surf. Layer
- Organic Streaking
- Organic Pan
- On Hydric Soils List

Remarks: _____

Hydric Soil Criterion / Indicators Met? YES NO

HYDROLOGY

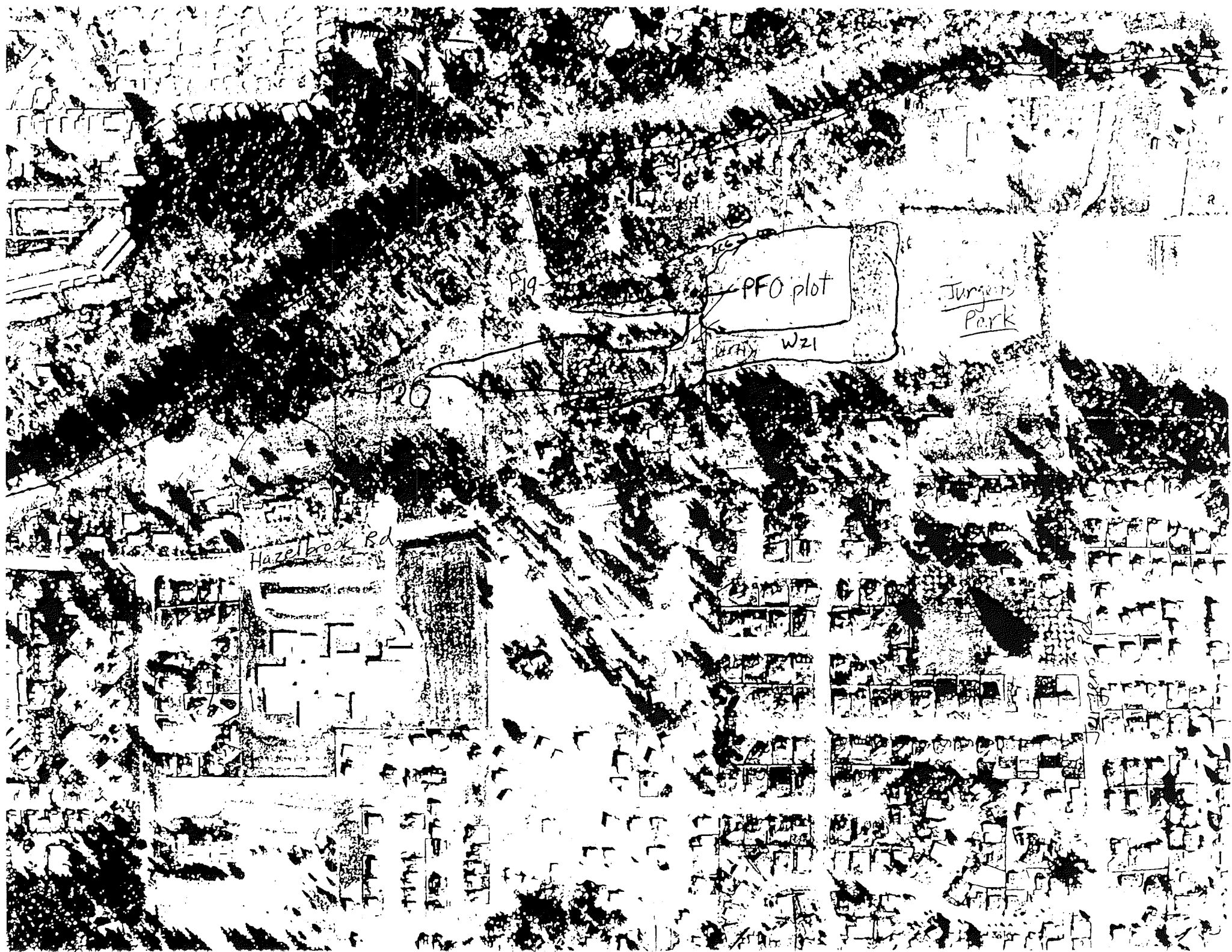
Depth of inundation: NA Depth to saturation: > 18" Depth to free water: > 18"

- | | | |
|---|--|---|
| <input type="checkbox"/> 1° Indicators | <input type="checkbox"/> 2° Indicators | <input type="checkbox"/> 2° Indicators |
| <input type="checkbox"/> Inundated | <input type="checkbox"/> Oxidized Root Channels in upper 12" | <input type="checkbox"/> Local Soil Survey Data |
| <input type="checkbox"/> Saturated in upper 12" | <input checked="" type="checkbox"/> Water-stained leaves | <input type="checkbox"/> FAC-Neutral Test |
| <input type="checkbox"/> Water Marks | Recorded Data Available (aerials, gauge) ? - Explain: _____ | |
| <input type="checkbox"/> Drift Lines | Other: <u>layer of water stained leaves on forest floor</u> | |
| <input type="checkbox"/> Sediment Deposits | | |
| <input type="checkbox"/> Drainage Patterns | | |

Wetland Hydrology Criterion / Indicators Met? YES NO

DETERMINATION: Is this plot a Wetland? YES NO

Comments: _____
Determined by: M. V. White Fishman Environmental Services



PFO plot

Jurgens
Park

P19

P20

Hazelbrook Rd

W21

W21

Scrub-shrub
Characterization

Tualatin LWI WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W36 County: Washington State: OR Date: 6/195 Plot: P55
Applicant/Owner: _____ Sect. _____ Township _____ Range _____ City: Tualatin
lot Location: E of 118th

Topographic Location: _____
Do Normal Circumstances exist on the site? Y N Explain: _____
Are soils _____ vegetation _____ hydrology _____ significantly disturbed? N Y Explain: _____

VEGETATION

*Dominant Plant Species	% Cover	Ind.	*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: <u>40</u>			Shrub/Sapling Stratum - % total cover: <u>30</u>		
1. <u>Phalaris arundinacea</u>	<u>90</u>	<u>FACW</u>	1. <u>Rosa nutkana</u>	<u>100%</u>	<u>FAC</u>
2. <u>Juncus effusus</u>	<u>10</u>	<u>FACW</u>	2. _____		
3. <u>Galium spp.</u>	<u>(Few)</u>		3. _____		
4. _____			4. _____		
5. _____			5. _____		
6. _____			Tree Stratum - % total cover: <u>30</u>		
7. _____			1. <u>Crataegus douglasii</u>	<u>100%</u>	<u>FAC</u>
8. _____			2. _____		
9. _____			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 SCLL Matches Profile? Y N
 Taxonomy: _____ Drainage Class: Poorly drained

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

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 organic 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
<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized Root Channels in upper 12"	<input type="checkbox"/> Local Soil Survey Data
<input type="checkbox"/> Saturated in upper 12"	<input type="checkbox"/> Water-stained leaves	<input type="checkbox"/> FAC-Neutral Test
<input type="checkbox"/> Water Marks	Recorded Data Available (aerials, gauge)? - Explain: _____	
<input type="checkbox"/> Drift Lines	Other: <u>strong soil saturation indicators</u>	
<input type="checkbox"/> Sediment Deposits	Wetland Hydrology Criterion / Indicators Met? <input checked="" type="radio"/> <u>YES</u> <input type="radio"/> <u>NO</u>	
<input type="checkbox"/> Drainage Patterns		

DETERMINATION: Is this plot a Wetland? YES NO

Comments: _____
Determined by: M. Mahala Fishman Environmental Services

Emergent
Characterization

Tualatin LWI WETLAND DETERMINATION DATA SHEET - 1987 MANUAL

Project #: 94102 Site: W36 County: Washington State: OR Date: 6/1/95 Plot: PEM
Applicant/Owner: _____ Sect: _____ Township: _____ Range: _____ City: Tualatin
Location: Middle of RCG field, east of 119th

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.	*Dominant Plant Species	% Cover	Ind.
Herb Stratum - % total cover: <u>100</u>			Shrub/Sapling Stratum - % total cover: <u>0</u>		
1. <u>Phalaris arundinacea</u>	<u>100</u>	<u>FACW</u>	1. _____		
2. <u>Myosotis scorpioides</u>	<u>(Few)</u>	<u>FACW</u>	2. _____		
3. <u>Lotus corniculatus</u>	<u>(Few)</u>	<u>FAC</u>	3. _____		
4. _____			4. _____		
5. _____			5. _____		
6. _____			Tree Stratum - % total cover: <u>0</u>		
7. _____			1. _____		
8. _____			2. _____		
9. _____			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
<u>0-9"</u>	<u>Ap</u>	<u>10YR 3/1</u>	<u>many, fine to med. distinct 10YR 7/6 on pores</u>	<u>SCL Granular</u>
<u>9-14"</u>	<u>Bg</u>	<u>10YR 4/1</u>	<u>Gleyed</u>	<u>clay subang. blocky</u>
<u>14-20"</u>	<u>B2g</u>	<u>5Y 3/1</u>	<u>Gleyed</u>	<u>clay w/ some coarse sand</u>

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Prob. Aquic Moisture Regime
- Reducing Conditions (test)
- Gleyed
- Mottled (w/i 10")
- Concretions (w/i 3", >2mm)
- Hi. Organic Cont. Surf. Layer
- Organic Streaking
- Organic Pan
- 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

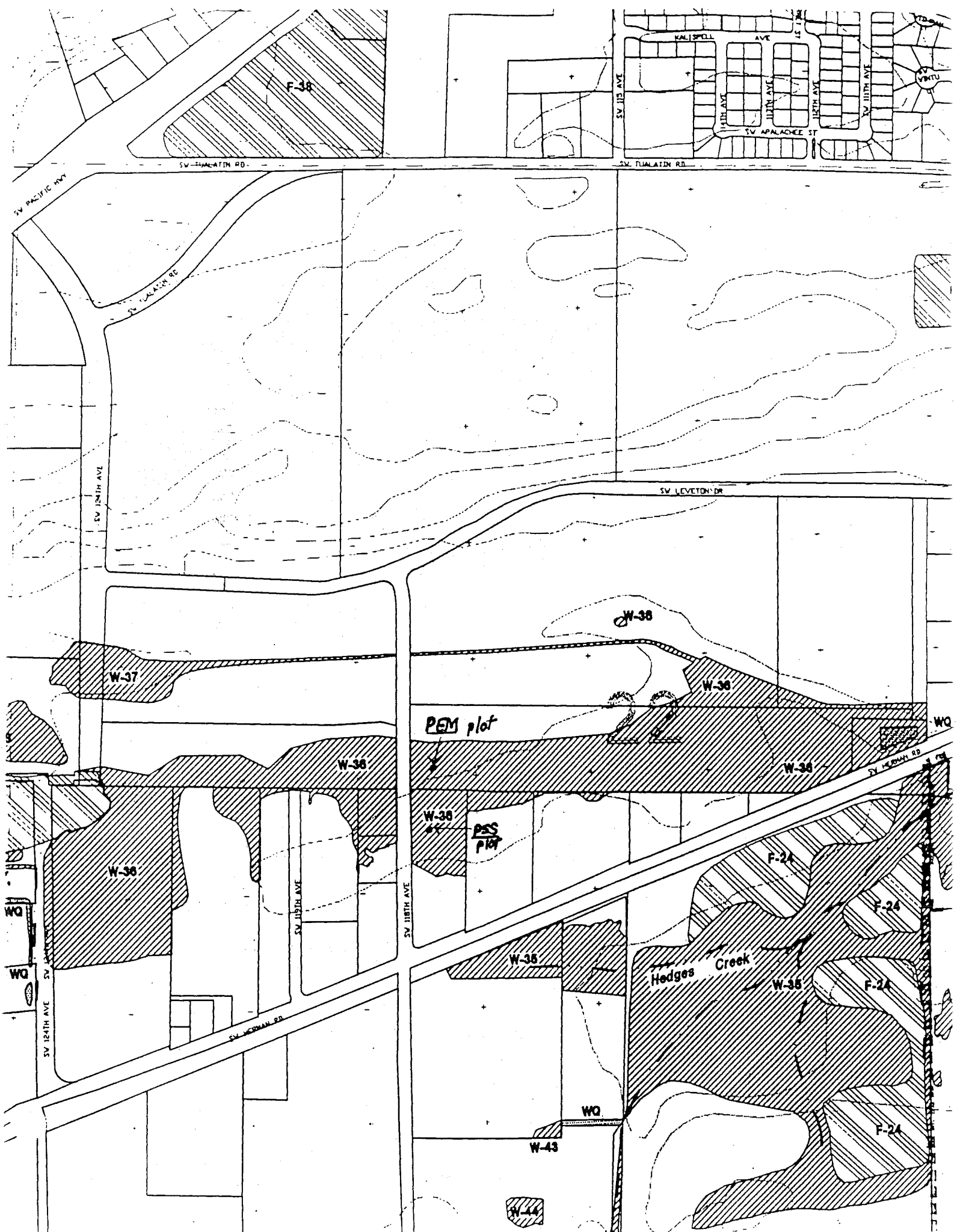
Depth of inundation: NA Depth to saturation: >20" Depth to free water: >20"

- 1° Indicators
- Inundated
- Saturated in upper 12"
- Water Marks
- Drift Lines
- Sediment Deposits
- Drainage Patterns
- 2° Indicators
- Oxidized Root Channels in upper 12"
- Water-stained leaves
- Recorded Data Available (aerials, gauge) ? - Explain: _____
- Other: strong soil saturation indicators
- 2° Indicators
- Local Soil Survey Data
- FAC-Neutral Test

Wetland Hydrology Criterion / Indicators Met? (YES) NO

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

Comments: _____
Determined by: M. V. L. L. Richardson Environmental Services



F-36

SW TUALATIN RD

SW TUALATIN RD

SW PACIFIC HWY

SW 12TH AVE

SW LEVETON DR

W-37

W-38

W-38

PEM plot

W-38

W-38

W-38

PEM plot

W-38

SW 12TH AVE

SW 12TH AVE

W-38

Hedges Creek

W-38

F-24

F-24

F-24

F-24

W-43

W-44

WQ

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

SW 12TH AVE

WQ

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Lewiston

1/8th A.R.

W36

◦ (PEM-Plot) (characterization)

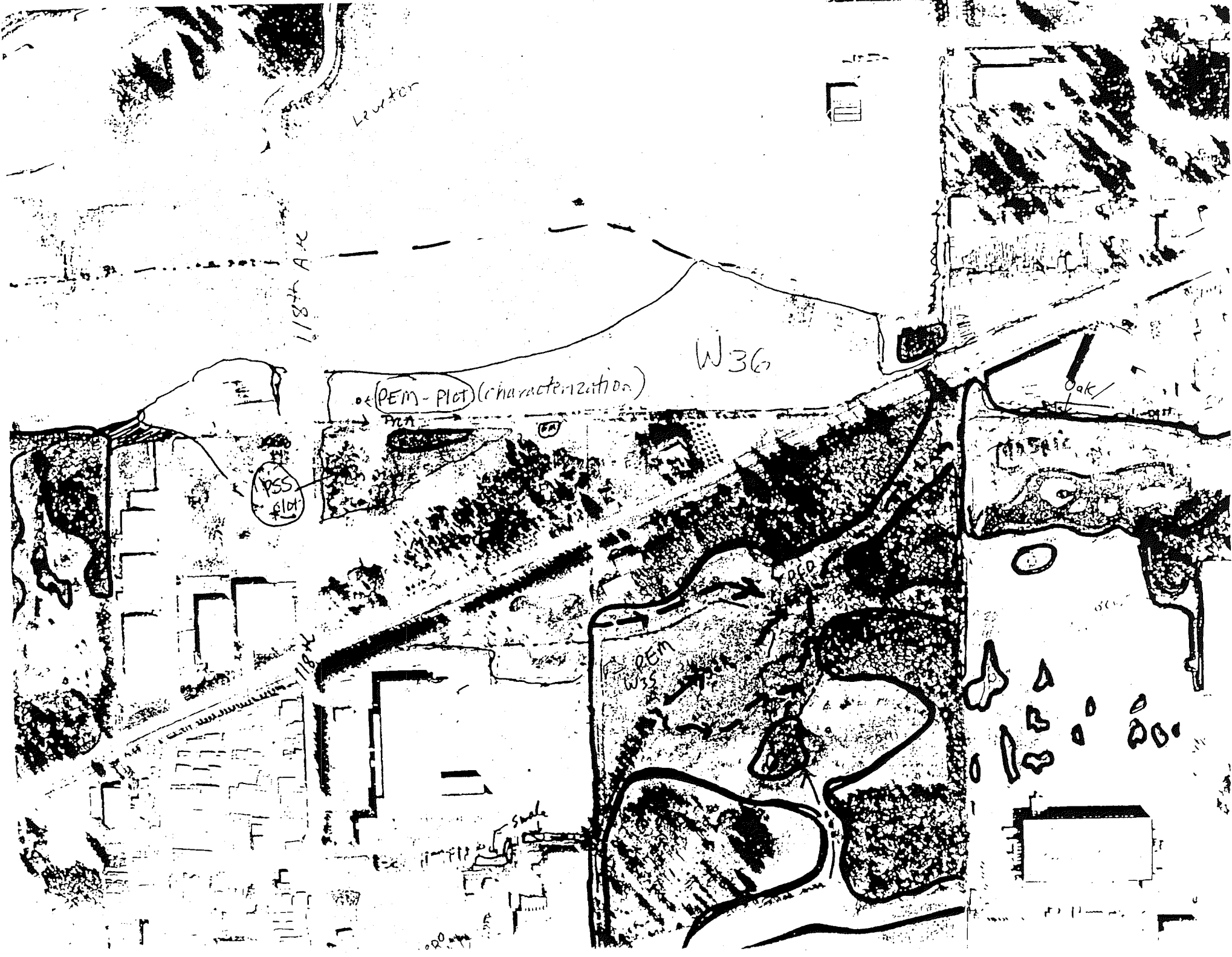
(PSS Plot)

Oak

PEM
W36

Hand-drawn symbols and shapes, possibly representing data points or specific features.

Small handwritten note or label.



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

Table with columns for Dominant Plant Species, % Cover, and Ind. for Herb, Shrub/Sapling, and Tree stratum. Includes handwritten entries for Phalaris arundinacea and Alopecurus pratensis.

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? (N) Transition
Taxonomy: Cumulic Udic Haploxeralf Drainage Class: Mod. Well Drained
Table with columns: Depth, Horizon, Matrix Color, Mottle Color, Abund., Size, On Pores/Peds?, Texture, Structure

Table with columns: 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 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 Wahl 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? N Explain:
Are soils vegetation hydrology significantly disturbed? Explain:

VEGETATION

Table with columns for Dominant Plant Species, % Cover, and Ind. for Herb/Stratum, Shrub/Sapling Stratum, and Tree Stratum.

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 Xerochrypts Drainage Class: SPD

Table with columns: Depth, Horizon, Matrix Color, Mottle Color, Abund., Size, On Pores/Peds, Texture, Structure.

- List of soil characteristics: Histosol, Reducing Conditions, Hi. Organic Cont., Histic Epipedon, Gleyed, Organic Streaking, Sulfidic Odor, Mottled, Organic Pan, Prob. Aquic Moisture Regime, Concretions, On Hydric Soils List.

Remarks: Soil Dry throughout (cores moist)

Hydric Soils Present? YES NO

HYDROLOGY

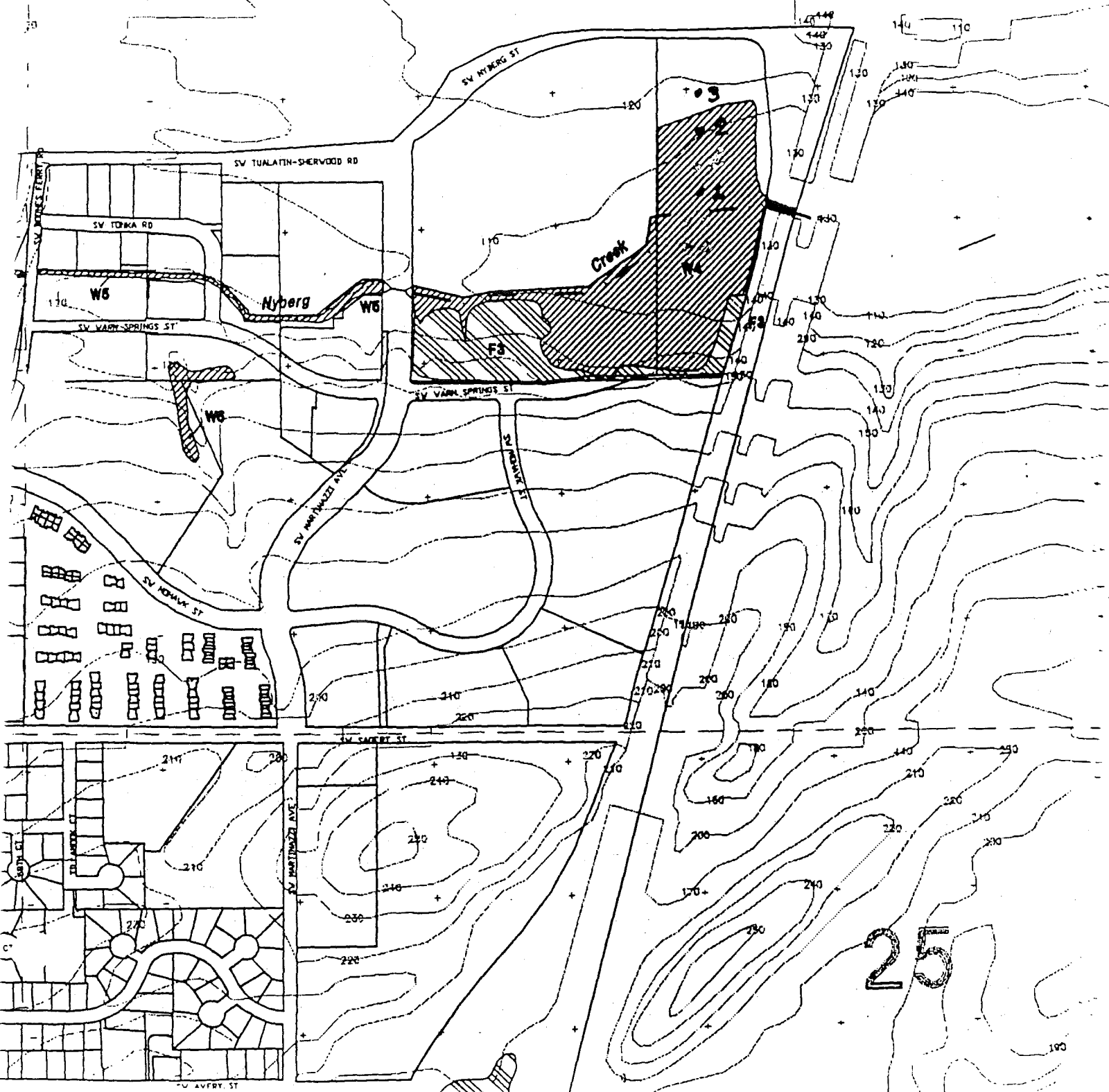
Depth of inundation: NA Depth to saturation: >16" Depth to free water: >16"
1° Indicators 2° Indicators 2° Indicators
Inundated Oxidized Root Channels in upper 12" Local Soil Survey Data
Saturated in upper 12" Water-stained leaves FAC-Neutral Test
Water Marks Recorded Data Available (aerials, gauge) ? - Explain:
Drift Lines Other: upper slope of field
Sediment Deposits Wetland Hydrology Present? YES NO
Drainage Patterns

DETERMINATION: Is this plot a Wetland? YES NO

Comments:
Determined by: Mark Whelan Fishman Environmental Services

Disturbed Plot (W4)

24



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City of Tualatin Natural Resource Inventory

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

big leaf maple
cherry
Douglas fir
Oregon ash
red alder
western red cedar
incense cedar

Shrubs

snowberry
red elderberry
beaked hazelnut
Oregon grape
oceanspray
fairy lanterns
vine maple
Himalayan blackberry
woods rose

Herbaceous

sword fern
fringecup
Siberian springbeauty
waterleaf
Dewey's sedge
sweet cicely
cleavers
inside-out flower
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...

City of Tualatin Natural Resource Inventory

UPLAND RESOURCE SUMMARY SHEET

UNIT: T7	UPLAND: F42	Type: Coniferous, Riparian	Field Date: 6-16-95
Location: North of Hwy 99W/Cipole Rd.		Acres: 1.8	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

- * Douglas fir
- * big leaf maple
- * western red cedar
- cherry
- red alder
- Oregon ash

Shrubs

- * snowberry
- * beaked hazelnut
- Oregon grape
- oceanspray
- fairy lanterns
- vine maple
- Himalayan blackberry
- woods rose
- English holly

Herbaceous

- * sword fern
- * waterleaf
- tall fescue
- fringecup
- wild strawberry
- Dewey's sedge
- sweet cicely
- cleavers
- 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