Sutherlin Festival Grounds
Preliminary Wetland Delineation Report

Assessor’s Map 25-05-20, Lot 100
25-05-20AA, Lots 100, 200 and 400
25-05-21, Lots 300 and 400

March 10, 2008

Prepared for
City of Sutherlin
126 East Central Ave.
Sutherlin, OR 97479

Submitted to
Oregon Department of State Lands
775 Summer Street NE, Suite 100
Salem, OR 97301-1279

Department of the Army
Corps of Engineers, Portland District
Eugene Field Office
1600 Executive Parkway, Suite 210
Eugene, Oregon 97401-2156

Prepared by
Satre Associates, P.C.
Planners, Landscape Architects and Environmental Specialists
101 East Broadway, Suite 480
Eugene, Oregon 97401
phone 541.465.4721
fax 541.465.4722
www.satrepc.com
**WETLAND DELINEATION / DETERMINATION REPORT COVER FORM**

This form must be included with any wetland delineation report submitted to the Department of State Lands for review and approval. A wetland delineation report submittal is not "complete" unless the fully completed and signed report cover form and the required fee are submitted. Attach the form to the front of an unbound report and submit to: Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279.

Mail a copy of the completed form with payment of the required report review fee to: Oregon Department of State Lands, P.O. Box 4395, Unit 18, Portland, OR 97208-4395.

For new credit card payment option, see DSL website.

**Applicant**

Arthur J. "Bud" Schmidt (City Manager)
City of Sutherlin Oregon
126 E. Central Ave.
Sutherlin, Oregon 97479

**Authorized Legal Agent, Name and Address:**

Business phone # (optional)
FAX #
E-mail: b.schmidt@ci.sutherlin.or.us

I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact.

**Typed/Printed Name:** Arthur J. Schmidt

**Authorized Agent Name and Address:**

Business phone #
FAX #
Mobile phone #
E-mail:

**Latitude:**

Tax Map # 25-5-20AA, 25-5-20, 25-5-21

**Project and Site Information**

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<th>Project Name</th>
<th>Latitude: 43° 33.318' N</th>
<th>Longitude: 123° 18.467' W</th>
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<td>Sutherlin Festival Grounds</td>
<td>Tax Map # 25-5-20AA, 25-5-20, 25-5-21</td>
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<tr>
<td>Proposed Use:</td>
<td>Formalized Festival Grounds with Rodeo, tractor pull and other activities</td>
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**Project Street Address (or other descriptive location):**

City: Sutherlin County: Douglas

**Wetland Delineation Information**

Wetland Consultant Name, Firm and Address:
Brian Meiering and Susie Holmes
Satre Associates P.C.
101 East Broadway Suite 480
Eugene, OR 97401

Phone # 541.465.4721
Mobile phone # 541.844.8883
FAX # 541.465.4721
E-mail: b.meiering@satrepc.com

The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge.

Consultant Signature: [Signature]
Date: March 30, 2008

**Primary Contact for report review and site access is**

Consultant **X** Applicant/Owner **X** Authorized Agent

Wetland/Waters Present? **X** Yes **X** No

**Check Box Below if Applicable:**

- **R-F permit application submitted**
- **Mitigation bank site**
- **Wetland restoration/enhancement project (not mitigation)**
- **Industrial Land Certification Program Site**

**Fees:**

- Fee payment submitted $ 350.00
- Fee ($100) for resubmittal of rejected report

**Other Information:**

- Has previous delineation/application been made on parcel? **X** Yes **X** No
- If known, previous DSL #
- Does LWI, if any, show wetland or waters on parcel? **X** Yes **X** No

**For Office Use Only**

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Form Effective January 1, 2008
March 10, 2008

Department of the Army
Corps of Engineers, Portland District
Eugene Field Office
1600 Executive Parkway, Suite 210
Eugene, Oregon 97401-2156

State of Oregon Department of State Lands
775 Summer Street, Suite 100
Salem, Oregon 97301-1279

Re: City of Sutherlin
Arthur J Schmidt
126 East Central Ave.
Sutherlin, OR 97479

Wetland Delineation: Festival Grounds

Dear ODSL and ACOE personnel:

Enclosed please find a Preliminary Wetland Delineation for Sutherlin Festival Grounds. The following materials are included for your review and development plans are anticipated to be submitted within a JPA in the future:

<table>
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<th>Pages</th>
<th>Copies</th>
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<tr>
<td>Wetland Delineation Text</td>
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<tr>
<td>Appendix A: Figures 1-5, Sheets 6a-6d</td>
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<tr>
<td>Appendix B: Data Forms</td>
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<td>Appendix C: Ground Level Color Photos</td>
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<td>Appendix D: Hydrology, Climate and Weather Data</td>
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<tr>
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</table>

To clarify some of the content:

1. This Wetland Delineation has been compiled using the revised wetland delineation format mandated by DSL.

As the applicant's designated contact, Satra Associates is available to answer any questions you may have or provide additional materials if needed. We thank you in advance for your review and consideration of these application materials.

Sincerely,

Brian Melinong

Planners, Landscape Architects, and Environmental Specialists
A) **Landscape Setting and Land Use** (previous and current) *OAR141-090-0035 (7)(a)*

The Sutherlin Park Festival Grounds are located within the City of Sutherlin between South State St. west of the site and Southeast Waite Ave east of the site. Sutherlin Creek runs through a ditch comprising the north boundary of the site and the south boundary is comprised of a gravel road (and perimeter ditch) which at one time was a railroad line used by the mining industry and Weyerhaeuser Company. The site is surrounded by low, medium, and high residential, light industrial, and commercial land uses. There is also undeveloped land to the southeast that is zoned for low density residential. The site is currently zoned and used as public open space and conservation land. The site is also host to local gatherings each year consisting of a Stampede Rodeo and Timber Parade Destination and the City’s annual Blackberry Festival. Previous land use activities at this site have consisted of an old railroad line running beneath the gravel road abutting the southern edge of the site, and mine tailings were once deposited beneath the existing capped road bed.

B) **Site Alterations** *OAR141-090-0035 (7)(c)*

Alterations have included historic fill (pre 1970’s), historic channel alterations (1850s-1960’s), damming of Sutherlin creek in the late 1960’s-early 1970s, and dirt road building in various places throughout the site (South of Sutherlin creek, and just east of western perimeter ditch). According to historic aerial photos the site appeared to be used for agricultural purposes (1939-1960’s).

According to local accounts and local watershed assessments drain tiles were installed in the area for local orchards and fields during the late 1890’s. Many of these tiles are assumed to have been damaged to date, although the soccer field and some areas surrounding the rodeo may still contain intact drain tiles. The extent and location of tiles is not known.

A road running east-west along the Sutherlin Creek Canal appears to have been constructed around the same time as the Sutherlin creek widening, likely during the 60’s. It appears to consist primarily of sidecast from the creek widening and a light gravel surface. Other fill was deposited in the eastern area of the site (where the current Ash woodland exists) and may have been related to pre 1970’s orchards described in local watershed assessments. This fill also has a small road which connects the old rail line to the south to the Sutherlin creek levee to the north.

The historic railroad line running the southern edge of the site seemed to have been created in the late 1800s in association with the arrival of the O&C Railroad and subsequently abandoned/converted to a roadbed sometime prior to 1982. At one point, the roadbed was capped to reduce metal tailing contamination.

The soccer field in the western portion of the park was built before 1985 likely using fill deposited there decades before. The property was purchased by the City of Sutherlin in 1988 or 1989. Ditches along the southern boundary of the site were likely established formally when the housing developments went in along the western half of the site in the mid to late 1990’s, although local accounts relate the ditches to historic conditions decades ago. The rodeo arena and bleachers were installed sometime after 1994, according to aerial photos.
During the field investigation, several areas throughout the site seemed to be subject to vehicular use as indicated by muddy rutted areas. When these areas were evident within and around sample plots, evidence was documented on appropriate data sheets (See Appendix B).

C) **Precipitation Data and Analysis** OAR141-090-0035 (7)(b)

The average annual precipitation for Roseburg, Oregon (the closest weather data station) is between 29.07 and 37.14 inches. Field investigations were done on March 20 and 21, 2007 and on May 2, 8, 10, 2007. Cumulative precipitation for the two weeks prior to the initial survey date (March 20 and 21) was 0.97 inches, with no precipitation occurring on these investigative field days. Cumulative precipitation for the two weeks prior to the May survey dates (2, 8, and 10) was 0.87, 1.37, and 1.37 inches, respectively. Field days had 0.14 inches of precipitation on May 2 and were dry on May 8th and 10th.

Percent of normal rainfall year to date was 89.6% by March 1 and 78% by May 1. Monthly percent of normal precipitation for each of the three months preceding the field investigations were Dec 110%, Jan 56.4%, Feb 77.5%, Mar 45.0%, Apr 62.0%, and May 34.2% (Percent is per individual month, not a running total).

Subsequent field investigations dates to monitor soil hydrology include February 20, February 26 and March 04. Cumulative precipitation for the two weeks prior to the first survey date (February 20) was 0.2 inches, with no precipitation occurring on this investigative field day. Precipitation on February 26 and March 04 were 0 inches and 0.02 inches, respectively. A running average of normal water year rainfall year to date was 105.8% by February 1 and 91.1% by March 1. Monthly percent of normal precipitation for each of the four months preceding the field investigations were Oct 124.2%, Nov 67.5%, Dec 93.1%, Jan 105.8% and Feb 33.7% (In this case, percent is per individual month, not a running total). Please note that there is a WETS station in Sutherlin but there is no longer a weather station in Sutherlin. The WETS table for Sutherlin was used against weather station recordings from Roseburg station CUXS56 kmfr 051000cf0rbg. Please also note that the Sutherlin WETS table doesn’t include growing dates. Growing dates were taken from the Roseburg WETS table as it is the nearest and most appropriate second choice.

D) **Methods** (site-specific methods for field investigation, determining wetland boundaries and geographic extent of other waters) OAR141-090-0030, OAR141-090-0035 (7)(d-e), (g-h), (16)(a-b), (f), (d) or (g), (17), & (19-20)

Permission was granted by The City of Sutherlin to conduct an on-site investigation of the approximately 25.9 acre study area. The field investigation was conducted in accordance with methodology specified in the Corps Manual. The study area was initially walked to gain familiarity with existing site conditions.

Sampling Points were established at locations that would best characterize the local conditions between upland and wetland areas (See Appendix A, Sheets 6A-6D: Wetland Delineation Maps). At each Sample Point, observations and notes were made regarding vegetative cover, visible hydrology or other indicators of wetland hydrology, and soil characteristics. Visual observations were used to estimate percent vegetative cover for each plant species observed within a 5 foot radius for herbaceous cover and a
30 foot radius for trees and shrubs/saplings. Plots were sized based on local topography and were shaped to meet one condition of particular interest. Data sheets contain specific plot shape information if different from the standard plot type described above. Soil pits were dug to an average depth of 16 inches to observe and describe the soil type, to observe subsurface hydrologic conditions, and to confirm or refute the assigned soil type described in the Soil Survey for Douglas County. Additional observations were made on soil texture, moisture content, and hydric indicators. Examination of aerial photographs and on-site observations were collectively considered when determining the current site hydrology. Photo documentation was conducted to add qualitative information regarding the site and context to this report (See Appendix C: Ground Level Color Photographs).

The majority of plots onsite were considered atypical due to disturbance. Data sheets contain this information and describe what characteristics of wetlands and non-wetlands were used. In the case of the soccer field within the western portion of the study area, an atypical approach was taken to determine whether wetlands were present. After review of past aerial photographs it was determined that this area was filled well before 1972. This led the investigator to not attempt to discern the soil profile below 16 inches from the current profile. Instead, current conditions were judged as the norm and indicators were used as appropriate to judge whether areas were upland or wetland. In this case, indicators of hydrology were the primary factor when making determinations.

The boundary of WL9 was determined using ordinary high water indicators which were readily obvious. An attempt was made to determine the true ordinary high water versus an atypical flood event. Very old rack-lines were evident along the levee of Sutherlin creek and appear to be the product of one or few major flood events. Normal water line deposits containing racks of wood debris were apparent at varying levels along the levee, and the highest of these rack lines with recent deposits was used to determine the boundary. Seasonal drawdown along Sutherlin creek has created an average of 9 feet of wetlands on each side of the creek for the majority of its length through the site. These wetlands are completely contained within the ordinary high water line as delineated.

Initial fieldwork was conducted by Brian Meiering and Susie Holmes (Satre Associates, P C) and all field observations were recorded on data sheets (See Appendix B: Data Forms). Field investigations were done initially on 21 March 2007 and May 2nd, 8th and 10th of 2007 and subsequently on February 20th, 26th and March 4th of 2008 to confirm or refute hydrology. Hydrology monitoring was thought to be necessary due to the atypical complexity of portions of the site containing difficult soils and vegetation. Several dozen soil pits were dug and evaluated at least one time. Necessary plots were chosen based on field conditions and the suitability of previously collected data. All points were mapped using a baseline set of points surveyed in during the original wetland survey. A consistent distance and azimuth were used to field locate plots from surveyed points to within 1 meter. This data was used to confirm, refute and adjust the primary data synthesized in 2007. Please see Appendix D: 2008 Hydrology Data and 2008 Hydrology Monitoring Map.
E) Description of All Wetlands and Other Non-Wetland Waters (their characteristics and boundaries, e.g. whether they extend offsite) OAR141-090-0035 (2), (7)(b), & (17)

The study area contains nine discernable features with varying degrees of connectivity to each other. These features are mapped and described as WL1 through WL9.

WL1: 0.005 acre pocket wetland within the western portion of the site among historic fill. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (PHEME). This feature more than likely drains south into WL3 beneath fill or evaporates in the early part of the growing season. The boundaries of WL1 were determined primarily based on vegetation and direct observations of hydrology.

WL2: 0.040 acre pocket wetland within the western portion of the site among historic fill. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (PHEME). This feature more than likely drains south into WL3 beneath fill or evaporates in the early part of the growing season. The boundaries of WL2 were determined based on current vegetation, and current hydric soil indicators and direct observations of hydrology.

WL3: 0.055 acre linear wetland within the western portion of the site adjacent historic fill and a housing development to the south. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (PHEME). It drains to a standing pipe and into Sutherlin creek just east of the footbridge. It isn't accessible to fish. The boundaries of WL3 were determined primarily based on current vegetation and current indicators of hydrology, and are hydrologically contiguous with WL4.

WL4: 8.115 acre feature dominating the east central portion of the site and directly connected to WL5, WL3 and WL7. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (PHEME). WL4 is contiguous with WL5. There is no apparent connectivity of WL4 with Sutherlin creek with the possible exception of the water table. It is not accessible to fish as WL7. The boundaries of WL4 were based primarily on hydrology and mapping hydric soils. Vegetation within this wetland was problematic due to the species which were present. Topographical variations due to fill/adjacent development were also used to map the boundary.

WL5: 0.973 acre feature dominating the east portion of the site and directly connected to WL4 (And is indirectly connected with WL 7 via WL4). This wetland is classified as a palustrine forested seasonally flooded/saturated feature (PFOE). WL4 is contiguous with WL5. There is no apparent connectivity of WL4 with Sutherlin creek with the possible exception of the water table. It is not accessible to fish. The boundaries of WL5 were based on all three parameters of soils, hydrology, and vegetation as well as obvious topographical details due to historic fill.

WL6: 0.387 acre linear wetland within the southern portion of the site adjacent to the old rail line to the north and a housing development to the south. This wetland is classified as a riverine intermittent unconsolidated bottom seasonally flooded/saturated feature (R4UB6E). It drains west along the rail line and is directly connected in part to off-site wetlands to the south (east of the housing development). The wetland eventually drains west through a culvert along the western boundary of the site and is assumed to drain to Sutherlin creek approximately one
quarter (1/4) mile to the west. It isn't accessible to fish unless Sutherlin creek flooded extensively.

WL7: 0.077 acre linear wetland within the southern portion of the site adjacent Waite avenue to the east. This wetland is classified as a riverine intermittent unconsolidated bottom seasonally flooded/saturated feature (R2UB6E). It drains to Sutherlin creek. It isn't accessible to fish unless Sutherlin creek flooded extensively.

WL8: 0.385 acre linear wetland within the southern portion of the site adjacent the old rail line to the south and a housing development to the north. This wetland is classified as a riverine intermittent unconsolidated bottom seasonally flooded/saturated feature (R2UB6E). The wetland eventually drains west through a culvert along the western boundary of the site and is assumed to drain to Sutherlin creek approximately a quarter mile west. A very small segment of palustrine emergent seasonally flooded/saturated has been included within this wetland. WL8 isn't accessible to fish unless Sutherlin creek flooded extensively.

WL9: 1.808 acre linear wetland within northern portion of the site. This wetland is classified as a riverine permanent unconsolidated bottom semi-permanently flooded feature (R2UB3F). The wetland eventually drains west along the northern boundary of the site. A portion of this wetland as delineated includes the area between the wetland and the ordinary high water line. The ordinary high water contains wetlands in their entirety along the delineated reach. Topography was used extensively to delineate this feature due to its engineered nature. Upstream wetlands and ordinary high water were mapped using paired plots and drift lines indicative of ordinary high water. Ordinary high water was also collected at points downstream. After these points were surveyed, the creek was delineated in between points based on elevation along both sides of the creek. Fish have been documented as using Sutherlin creek including records of coho salmon and winter steelhead.

F) Deviation from LWI or NWI (if any, wetland determination data or explanation required.) OAR141-090-0035 (16)(e)

Findings are nearly consistent with the Sutherlin Local Wetlands Inventory data. Exceptions include some upland areas around the rodeo arena, the filled eastern edge of the study area near the ash woodland, and some subtle lowland concavities within old fill on soccer field. These areas were confirmed by presence or absence of hydrophytic vegetation and, more importantly, by hydric soil characteristics and direct observations of hydrology.

G) Mapping Method (including mapping precision estimate) OAR141-090-0035 (7)(f), (11), (12), (13), (18), & (22)

Wetland boundaries were determined using the field investigation methods described above (See Section D: Methods), hydrology data, topography and spot elevation data.
Plot locations and boundaries were marked with flagging for surveyor. Waters of the state and U. S. were delineated by obtaining ordinary high water mark locations and widths along the observed ditches and canals and flags were placed accordingly to inform the surveyor. The survey was performed by registered professional land surveyors, The Dyer Partnership Inc., in June 2007. Precision is estimated at 0.1 foot accuracy for all points and plus or minus 5 feet for boundaries. Digital survey data was managed by Satre Associates using AutoCAD software. The maps produced are at an approximate scale of 1": 100’ (See Appendix A, Sheets 6A-6D).

H) Additional Information (i.e., if needed to establish state jurisdiction) OAR141-085-0015 (1-7), OAR141-090-0030 (2), OAR141-090-0035 (6)(c), (16)(c), & (21).

Sutherlin creek is accessible to fish, including at least winter steelhead and coho salmon.

I) Results and Conclusions OAR141-090-0035 (7)(j)

The field study examined the entire Study Area and the presence or absence of wetland indicators and wetland features within the Study Area were documented. The field study identified three (palustrine emergent, palustrine forested, riverine) types of wetlands and a series of jurisdictional waters of the state and U. S. within the study area. All sample points and jurisdictional waters are mapped in Sheets 6A-6D.

The field study documented 8.215 acres of Palustrine Emergent Seasonally Flooded/Saturated (PEME) wetland, 0.973 acres of Palustrine Forested Seasonally Flooded/Saturated (PFOE) wetland, and 2.657 acres of various Riverine (R2UB3F, R4UB6E) and jurisdictional waters of the State and U. S.

J) Disclaimer OAR141-090-0035 (7)(k)

This report of findings includes observations of the project team, relevant information supplied by the client, relevant information supplied by other sources, and documents the best professional judgment of the investigator. This report should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been reviewed and approved in writing by the Oregon Division of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.
Appendix A: Maps
Figure 2: Tax Lot Map
Satre Associates 2007

Legend

Study_Area

1 inch equals 325 feet

Map 25-5-20
Lot 100

Map 25-5-20AA
Lot 100

Map 25-5-21
Lot 300

Map 25-5-21
Lot 400
Soil Map—Douglas County Area, Oregon
(Sutherlin Festival Grounds)

MAP LEGEND

Area of Interest (AOI)

Soils

Special Point Features

Blowout
Borrow Pit
Clay Spot
Closed Depression
Gravel Pit
Gravelly Spot
Landfill
Levee Flow
Marsh
Mine or Quarry
Miscellaneous Water
Perennial Water
Rock Outcrop
Saline Spot
Sandy Spot
Severely Eroded Spot
Sinkhole
Slide or Slip
Sodic Spot
Spoil Area
Stony Spot

Very Stony Spot
Wet Spot
Other
Gully
Short Steep Slope
Other

Water Features

Oceans

Transportation

Trails

Original soil survey map sheets were prepared at publication scale. Viewing scale and printing scale, however, may vary from the original. Please rely on the bar scale on each map sheet for proper map measurements.

Source of Map: Natural Resources Conservation Service
Coordinate System: UTM Zone 10N

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Douglas County Area, Oregon
Survey Area Data: Version 7, Dec 22, 2006
Date(s) aerial images were photographed: 5/7/1994

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

USDA
Natural Resources
Conservation Service

Web Soil Survey 2.0
National Cooperative Soil Survey
11/29/2007
Page 2 of 3
### Map Unit Legend

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<tr>
<td>215E</td>
<td>Rosehaven loam, 12 to 30 percent slopes</td>
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<td>224B</td>
<td>Sibold fine sandy loam, 0 to 5 percent slopes</td>
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<td>235C</td>
<td>Sutherlin silt loam, 3 to 12 percent slopes</td>
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**Totals for Area of Interest (AOI)**

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Figure 5a
1939 Aerial Photograph
Sutherlin Festival Grounds
Source: U of O Map Library
Legend

- Study Area

1 inch equals 325 feet

Figure 5b
1943 Aerial Photograph
Sutherlin Festival Grounds
Source: U of O Map Library
Figure 5e
1960 Aerial Photograph
Sutherlin Festival Grounds
Source: U of O Map Library
Legend

Study Area

1 inch equals 325 feet

Figure 6g
1979 Aerial Photograph
Sutherlin Festival Grounds
Source: U of O Map Library
Figure 5i
1983 Aerial Photograph
Sutherlin Festival Grounds
Source: U of O Map Library
Figure 5j
1985 Aerial Photograph
Sutherlin Festival Grounds
Source: U of O Map Library
Legend

Study_Area

1 inch equals 325 feet

Figure 5
1989 Aerial Photograph
Sutherlin Festival Grounds
Source: U of O Map Library
Legend

1 inch equals 325 feet

Figure 5m
2001 Aerial Photograph
Sutherlin Festival Grounds
OGDC Downloaded 2007
The purpose of this survey is to identify wetland features for use by the City of Sutherlin and Satre Associates. Wetland flags were established by Satre Associates. This site involves the fairgrounds area.

No property corners were set during this survey.

Vertical Datum
A NAVD 88 NAVD BENCHMARK位于X729 (Film Point).

Recording Elevation = 74.38 feet.

Bench Mark is located by I/D TRACKS AT 8TH & STATE STREET INTERSECTION.

Horizontal and Vertical Control were established using Trimble 5400 GPS equipment using I/D method holding above horizontal and vertical control points.

Equipment used:
GPS Trimble 5400 with office
Leica Total Station
Survey Software: Trimble Geomatics and Leica

INDEX TO DRAWINGS

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<td>West Section - Site Map</td>
</tr>
<tr>
<td>S3</td>
<td>Middle Section - Site Map</td>
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<tr>
<td>S4</td>
<td>East Section - Site Map</td>
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The following labels & symbols were added to this drawing set to clarify the localities of on site wetlands:

- Wetland: WLX
- Sample Plot: SPX
- Hydrology Monitoring Plot: RX

Located in Sections 16, 17, 20, & 21, Township 35 South, Range 5 West, W.M., Douglas County, Oregon
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks / Sales Associates, P.C.
Plant Community: Disturbed/Compact Roadside ditch
Recent Weather: Mean temp ~44 degrees partly cloudy, 1.65" month to date precipitation

Do normal an/or conditions exist? Y N  If No, explain:__
Has Vegetation Soil Hydrology been significantly disturbed? Y N
Explain: Plot located within a man-made ditch with compacted soils and diverted hydrology. Site is altered by adjacent development and previous fill activities. Roadside built well before 1972.

VEGETATION

Tree Stratum
Status/ Raw % Cover/ Rel % Cover
1. __
2. __
3. __

Sapling/Shrub Stratum
Status/ Raw % Cover/ Rel % Cover
1. Rubus armeniacus* FACU 40 100
2. __
3. __
4. __
5. __

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): ___%
Other Hydrophytic Vegetation indicators: __
Criteria Met? YES  NO  Comments: Vegetation not used in determination (due to atypical nature of ditch)

SOILS

Map Unit Name: 44 A Conser Silty Clay Loam Drainage Class: Poorly Drained
On Hydric Soils List? Y N  Has hydric inclusions? Y N

Depth Range of Horizon Matrix Redox Concentrations* Redox Depletions' Texture
0-5" 5yr 5/2-3 7.5yr 6/8 @ 9 C/MDI/Matrix SCL w/ifl

Refusal at 5"__

Hydric Soil Indicators:
- Histosol
- Histic Epipedon
- Sullicic Ohe
- Reducing Conditions (tests positive)
- Oxidized or low chrome colors
- Redox features within 10" (e.g., concentrations)
- Concretions/Nodules (vmin 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental Indicator (e.g., NRCS field indicator): __

Criteria Met? YES  NO  Comments: Soils in this area are fairly red at times due to historic red tailings, although mottling was obvious.

HYDROLOGY

Recorded Data
- Recorded Data Available
- Aerial Photos
- Stream gauge
- Other
- No Recorded Data Available

Field Data
- Depth of inundation: None
- Depth to Saturation: None
- Depth to free water: None

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water marks
- Sediment Deposits
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other: __

Criteria Met? YES  NO  Comments: Perimeter ditch has obvious high water marks.

DETERMINATION

WETLAND? YES  NO  Comments: Hydrology evident to driftlines as ordinary high water. Atypical excavated ditch is well defined by elevation gradient. This plot very weedy. Hydrology evidence is strong and the normal circumstance points to wetland characteristics throughout the extent of the ditch.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  
City: Sutherlin  
Plant Community: Disturbed/ Compacted Roadside  
Recent Weather: Mean temp -44 degrees partly cloudy, 1.95" month to date precipitation

Do normal weather conditions exist? Y □ N □  
If No, explain:  

Has Vegetation ( □ ) Soil ( □ ) Hydrology ( □ ) been significantly disturbed?  
Explain: Plot is located along the shoulder of a roadside, just above a man-made ditch with compacted soils and diverted hydrology, site is altered by adjacent development, and previous fill activities. Rail line built well before 1972.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Raw % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>2.</td>
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<tr>
<td>3.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Shrub Stratum</th>
<th>Status/ Raw % Cover/ Raw % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Rubus arnoldius*</td>
<td>FACW 1 1</td>
</tr>
<tr>
<td>2. Rosa cf. eplerana*</td>
<td>FACW 1 1</td>
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<td>3.</td>
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<tr>
<td>4.</td>
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<tr>
<td>5.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Avena fatua</td>
<td>FAC 57 1</td>
</tr>
<tr>
<td>2. Festuca arundinacea</td>
<td>FAC 25 24</td>
</tr>
<tr>
<td>3. Hackenia radicans</td>
<td>FACU 8 6</td>
</tr>
<tr>
<td>4. Dausus carneus</td>
<td>FACU 5 5</td>
</tr>
<tr>
<td>5. Centaurea pyrenensis</td>
<td>FACU 5 5</td>
</tr>
<tr>
<td>6. Vicia sativa var. sativa</td>
<td>FACU 5 5</td>
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</tbody>
</table>

Percent of Dominant Species that are OBL, FACU, FAC (not FAC-): 22%

Other Hydrophytic Vegetation Indicators: None

Criteria Met? YES □ NO □  
Comments: Roadbed

SOILS

Map Unit Name: Conser silty clay loam  
Drainage Class: Poorly drained

<table>
<thead>
<tr>
<th>Depth Range Matrix</th>
<th>Redox Concentrations</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refusal Gravel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- Histosol
- High Epipedon
- Sulfitic Odor
- Reducing Conditions (tests positive)
- Gleved or low chroma colors
- Redox features within 10" (e.g., concentrations)

Criteria Met? YES □ NO □  
Comments: Atypical, road bed is capped with gravel from old rail line.

HYDROLOGY

Recorded Data: □ Yes □ No □  
Comments: Aypical, road bed is capped with gravel from old rail line.

Field Data
- Depth of inundation: 9
- Depth to saturation: None
- Depth to free water: None

Primary Hydrology Indicators:
- Inundated
- Water-stained Leaves
- Local Soil Survey Data
- Other:

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12"
- FAC-Neutral Test
- Other:

Criteria Met? YES □ NO □  
Comments:

DETERMINATION

WETLAND? YES □ NO □  
Comments: Plot taken to describe capped roadway bisecting perimeter ditch.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.
Plant Community: Disturbed/ Compacted Roadside Ditch
Plot location: Just west of first house on the south side of central street with culdesac, within central ditch

Do normal envion. conditions exist? Y □ N □ If No, explain: __

Has Vegetation □ Soil □ Hydrology □ been significantly disturbed? Explain: __

---

### VEGETATION

#### Tree Stratum

<table>
<thead>
<tr>
<th>Status/ Raw % Cover/ Ret % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Crataegus monogyna*</td>
</tr>
<tr>
<td>2. Fraxinus linolea*</td>
</tr>
<tr>
<td>3. Malus X domestica</td>
</tr>
</tbody>
</table>

#### Herb Stratum

<table>
<thead>
<tr>
<th>Status/ Raw % Cover/ Ret % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Festuca arundinaceae*</td>
</tr>
<tr>
<td>2. Juncus patens*</td>
</tr>
<tr>
<td>3. Mentha pulegium</td>
</tr>
<tr>
<td>4. Daucus carota</td>
</tr>
<tr>
<td>5. Centaurea pratensis</td>
</tr>
<tr>
<td>6. Dioscorea bulbocicada sylvestris</td>
</tr>
<tr>
<td>7. Geranium dissectum</td>
</tr>
<tr>
<td>8. Taraxicum officinale</td>
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<td>9.</td>
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<td>10.</td>
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<td>11.</td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 10/5%

Other Hydrophytic Vegetation Indicators: see non-dominants within herb stratum list. NOl species occurred around the perimeter of plot and weren't indicative of plot center so were therefore omitted from the 50/20 Criteria Met? YES □ NO □ Comments: Festuca arundinaceae AND Crataegus monogyna (possible hybrid) problematic. Veg would have passed without it. Crataegus cover shouldn't be equally weighted because it was truly not dominent.

---

### SOILS

Map Unit Name: Conser silty clay loam

On Hydric Soils List? Y □ N □ Has hydric inclusions? Y □ N □

<table>
<thead>
<tr>
<th>Depth Range</th>
<th>Matrix Color</th>
<th>Redox Concentrations</th>
<th>Redox Depletions</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 15&quot;</td>
<td>10yr 3/2 - 1</td>
<td>Scl</td>
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</table>

Hydric Soil Indicators:
- Histosol
- Histic Epipedon
- Sulfidic Oxisol
- Reducing Conditions (tests positive)
- Gleyed or low chroma colors
- Redox features within 10" (e.g., concentrations)

Criteria Met? YES □ NO □ Comments: Mottling begins within 3".

---

### HYDROLOGY

Recoded Data
- Recorded Date Available □ Aerial Photos □ Stream gauge □ Other □ No Recorded Data Available

Field Data
- Depth of Flood: 9" Depth to Saturation: 0" Depth to free water: 9.5" 

Primary Hydrology Indicators:
- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other: __

Criteria Met? YES □ NO □ Comments: Hydrology provided by perimeter ditch.

---

### DETERMINATION

WETLAND? YES □ NO □ Comments: Although vegetation is somewhat problematic, hydrology + soils are strongly suggestive of wetland characteristics.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas
City: Sutherlin
Project/Contact: Sutherlin Pkwy/ Satre Associates, P.C.
Plant Community: Disturbed/ Compacted Roadside
Plot location: Just south/southwest of SP3

Recent Weather: Mean temp ~44 degrees daily. Cloudy. 1.05" month to date precipitation

Do normal environmental conditions exist? Y N If No, explain:

Has Vegetation ☐ Soil ☐ Hydrology ☐ been significantly disturbed?

Explain: Plot is located along the shoulder of a roadside, just above a ditch with compacted soils and diverted hydrology, site is altered by and previous fill activities. Rail line built well before 1972.

VEGETATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
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</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
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<tr>
<td>1.</td>
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<td>4.</td>
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<td>5.</td>
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<tr>
<td>Sedge/Shrub Stratum</td>
<td>Status/ Raw % Cover/ Rel % Cover</td>
</tr>
<tr>
<td>1.</td>
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<td>4.</td>
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</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 93%
Other Hydrophytic Vegetation Indicators: Community is disturbed FAC dominant

SOILS

Map Unit Name: Conser silty clay loam
On Hydric Soils List? Y N Has hydric inclusions? Y N

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>&quot;abund/frac/contrast/color/location (matrix or pores/peds)&quot;</td>
<td>Refusal @ 0&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
☐ Histosol
☐ Hydric Epipedon
☐ Sulfidic Odor
☐ Reducing Conditions (tests positive)
☐ Glued or low chroma colors
☐ Redox features within 10" (e.g., concentrations)

Criteria Met? YES ☐ NO ☑ Comments: Atypical- Gravel roadbed edge

HYDROLOGY

Recorded Data Available ☐ Aerial Photos ☐ Stream gauge ☐ Other ☐ No Recorded Data Available

Field Data
Depth of inundation: None
Depth to saturation: None
Depth to free water: None

Primary Hydrology Indicators:
☐ Inundated
☐ Saturated in upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patters

Secondary Hydrology Indicators (2 or more required):
☐ Oxidized Root Channels (upper 12")
☐ Water-stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other: ______

Criteria Met? YES ☐ NO ☑ Comments: Same as soil commentary

DETERMINATION

WETLAND? YES ☐ NO ☑ Comments: Gravel roadbed edge. Hasn't been recently disturbed. (Plot taken to describe rail line edge.)
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Sutare Associates, P.C.
Plant Community: Ash Woodland
Plot location: Plot is along western side of eastern ash woodland area
Recent Weather: Mean temp -44 degrees partly cloudy. 1.05" month to date precipitation
Do normal environ. conditions exist? Y 1EI N 0
Has Vegetation 0 Soil 0 Hydrology 0 been significantly disturbed?
Explain: __

File #: 0349  Del. by: Brian Melerinal Susie Holmes
Plot #: SP5

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fraxinus latifolia*</td>
<td>FACW</td>
<td>60</td>
<td>100</td>
</tr>
<tr>
<td>2. Juncus patens*</td>
<td>UPL</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>3. Fraxinus latifolia*</td>
<td>FACW</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>1. Crataegus monogyna*</td>
<td>50</td>
<td>100</td>
<td>7. Menzies pleasures</td>
</tr>
<tr>
<td>2.</td>
<td>50</td>
<td>100</td>
<td>8. Sanicula crassicaulis</td>
</tr>
<tr>
<td>3.</td>
<td>50</td>
<td>100</td>
<td>9. Daucus carota</td>
</tr>
<tr>
<td>4.</td>
<td>50</td>
<td>100</td>
<td>10. Centaurea solstitialis</td>
</tr>
</tbody>
</table>

SOILS

Map Unit Name: 44A Conner silty loam
Drainage Class: Poorly drained

Hydric Soil Indicators:
- Histosol
- Histic Eppipon
- Sulphic Oder
- Reducing Conditions (tests positive)
- Gleyed or low chorma colors
- Redox features within 10" (e.g., concentrations)
- Concretions/Nodules (within 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator):

Hydrology Indicators:
- Inundated
- Oxidized Root Channels (upper 12")
- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other:

Criteria Met? YES 12: 1 NO 0 Comments: This was one of the least disturbed of the plots. Plot taken to describe least altered condition within eastern ash stand. Established a baseline to judge historic fill that occurred to the east (pre-70's) and to differentiate the disturbed western field.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin  Date: 21/March/2007  File # 0349
Project/Contact: Sutherlin Parks/ Sare Associates, P.C.
Plant Community: Wet Meadow  Plot location: Plot is just west of ash woodland area in open, inundated meadow
Recent Weather: Mean temp -44 degrees, partly cloudy, 1.05" month to date precipitation
Do normal environ. conditions exist? Y N  If No, explain:
Has Vegetation □ Soil □ Hydrology been significantly disturbed?
Explain: meadow is a muddy pit that has repeatedly been driven through, although this area was somewhat spared

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Ret % Cover</th>
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<tbody>
<tr>
<td>1.</td>
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<td>3.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th>Status/ Raw % Cover/ Ret % Cover</th>
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</thead>
<tbody>
<tr>
<td>1.</td>
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<td>2.</td>
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<td>3.</td>
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<tr>
<td>4.</td>
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<td>5.</td>
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</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 100%

SOILS

Map Unit Name: 44A Conser silty clay loam  Drainage Class: Poorly drained

| On Hydric Soils List? Y N  Has hydric inclusions? Y N  Depth Range of Horizon |
|--------------------------|--|--|--------------------------|
| Depth Range of Horizon   | Matrix Color | Redox Concentrations* | Redox Depletions* |
| 0 - 8                    | 2.5yr 3/1    | 10yr 7/8 Clf/DM,p,pe  | SCL           |
| 8 - 18                   | 10yr 9/1     | F/F/F                   |              |

Hydric Soil Indicators:

|☒ Histosol                  |☒ High organic content in surface (in Sandy Soils) |
|☒ Sulfidic Olf              |☒ Organic staining (in Sandy Soils) |
|☒ Reducing Conditions (tests-positive) |☒ Organic pan (in Sandy Soils) |
|☒ Oxidized or low chroma colors |☒ Listed on Hydric Soils List (and soil profile matches) |
|☒ Redox features within 10" (e.g., concentrations) |☒ Meets hydric soil criteria 3 or 4 (pended or flooded for long duration) |
|☒ Concretions/Nodules (with 3", > 2mm) |☒ Supplemental Indicator (e.g., NRCS field indicator): |

SOILS

Recorded Data Available  ☒ Aerial Photos  ☐ Stream gauge  ☐ Other  ☐ No Recorded Data Available

Field Data

| Depth of Inundation: 9 | Depth to Saturation: To surface | Depth to free water: 2" |

Primary Hydrology Indicators:

|☒ Inundated                |☒ Oxidized Root Channels (upper 12") |
|☒ Satuated in upper 12 inches |☒ Water-stained Leaves |
|☒ Water Marks              |☒ Local Soil Survey Data |
|☒ Drift Lines              |☒ FAC-Neutral Test |
|☒ Sediment Deposits       |☒ Other: |
|☒ Drainage Patterns       |                                    |

DETERMINATION

WETLAND? YES ☒ NO ☐ Comments: Plot is just east of the beginning of standing water. (Soil profile of this plot is typical of open field, within common vehicle disturbance.)
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

**County:** Douglas  
**City:** Sutherlin  
**Project/Contact:** Sutherlin Parks & Recreation  
**Plant Community:** Grassy Lawn  
**Plot Location:** Along northern central edge of soccer field within a slight topographic depression  
**Date:** 02/11/2007  
**Plot #:** SP7  
**Plot Contact:** Sutherlin Parks & Recreation  
**Plot Manager:** Brian Meier  
**Plot No.:** SP7  
**Plot ID:** 9349

**Recent Weather:** Mean temp 50-degree, partly cloudy, 6.14" precipitation. 0.34" month to date precipitation.  
If SI, explain: Site was recently mowed (usual of management)

**Has Vegetation, Soil, Hydrology been significantly disturbed?**  
Explain: Plants are still recognizable regardless of recent mowing

---

### VEGETATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Status</th>
<th>Raw % Cover</th>
<th>Rel % Cover</th>
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</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
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<td>1.</td>
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<td>2.</td>
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<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Mantha pulegium</td>
<td>65</td>
<td>42</td>
</tr>
<tr>
<td>2.</td>
<td>Hordeum jubatum</td>
<td>60</td>
<td>39</td>
</tr>
<tr>
<td>3.</td>
<td>Plantago lanceolata</td>
<td>20</td>
<td>13</td>
</tr>
<tr>
<td>4.</td>
<td>Rumex crispus</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>5.</td>
<td>Hypecochis radicata</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>6.</td>
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</tr>
</tbody>
</table>

**Percent of Dominant Species** that are OBL, FAC, FAC (not FAC): 100%

---

### SOILS

**Map Unit Name:** 44A Conifer silty clay loam  
**Drainage Class:** Poorly drained

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations</th>
<th>Redox Depletions</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 1&quot;</td>
<td>7.5yr 3/3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - 4&quot;</td>
<td>10yr 3/3</td>
<td>5yr 3/3</td>
<td></td>
<td>BIG</td>
</tr>
<tr>
<td>4 - 9&quot;</td>
<td>10yr 3/3</td>
<td>6yr 3/3</td>
<td></td>
<td>BIG</td>
</tr>
<tr>
<td>9 - 17&quot;</td>
<td>2.5yr 2.5/1</td>
<td>7.5yr 3/3</td>
<td></td>
<td>SCL</td>
</tr>
</tbody>
</table>

**Hydric Soil Indicators:**  
- Hielsol  
- Histic Ephemeral  
- Sulfidic Odor  
- Reducing Conditions (tests positive)  
- Gleyed or low chroma colors  
- Redox features within 1" (e.g., concentrations)

**Hydric Soil Criteria:**  
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator): __________

**Criteria Met?** YES □ NO [ ]

**SOILS**  

### HYDROLOGY

**Recorded Data:**  
- Aerial Photos  
- Stream gauge  
- Other  
- No Recorded Data Available

**Field Data:**  
- Depth of inundation: 0  
- Depth to Saturation: None  
- Depth to free water: None

**Primary Hydrology Indicators:**  
- Inundated  
- Saturated in upper 12 inches  
- Water Martrix  
- Drift Lines  
- Sediment Deposits  
- Drainage Patterns

**Secondary Hydrology Indicators:**  
- Oxidized Root Channels (upper 12")  
- Water-stained Leaves  
- Local Soil Survey Data  
- FAC-Neutral Test  
- Other: __________

**Criteria Met?** YES □ NO [ ]

---

### DETERMINATION

**WETLAND?** YES □ NO [ ]

Comments: Site within field needs to be established as to the date it was placed (see 3 Dec. 2008 TELECON with J. Carnate). Soccer field built (filled) before 1985 according to local accounts, but was more than likely filled much earlier originally.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

File #0349

Date: 07-May-2007

Det. by Brian Meiering/ Susie Holmes
Plot # SP8

County: Douglas
City: Sutherlin
Project/Contact: Sutherlin Parks/ Salco Associates, P.C.
Plant Community: Grasses Lawn/ Meadow
Plot Location: East-northeast off the corner of SP7

Recent Weather: Mean temps 50-60 degrees, partly cloudy. 0.14" precipitation. 0.34" month to date precipitation

Do normal environmental conditions exist? Y

Has Vegetation / Soil / Hydrology been significantly disturbed?

Explain: Site was recently mowed (physical of management), although plants are still recognizable regardless of recent mowing

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>1. Festuca arundinacea*</td>
<td>FAC: 95</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>2. Trifolium repens*</td>
<td>FACU+ 10</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>3. Bellis perennis*</td>
<td>NOL 8</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>4. Stellaria media*</td>
<td>FACU 5</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td>5. Hymenachne radicata</td>
<td>FACU 1</td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td>6. Rumex crispus</td>
<td>FAC+ 1</td>
</tr>
</tbody>
</table>

SOILS

Map Unit Name: 44A Conca silty clay loam

On Hydric Soils List? Y N Y

Has hydric inclusions? Y N Y

Depth Range of Horizon | Matrix Color
--- | ---
0-7" | 10.5yr 3/2 Negligible

Redox Concentrations' Redox Depletions' Texture

Hydric Soil Indicators:

- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)

Concretions/Nodules (w/in 3"; > 2mm)

Supplemental indicator (e.g., NRCS field indicator): __________

CRITERIA MET? YES NO

Comments: __________

HYDROLOGY

Recorded Data Available Aerial Photos Stream gauge Other No Recorded Data Available

Field Data

Depth of Inundation: None

Depth to Saturation: None

Depth to Free Water: None

Primary Hydrology Indicators:

- Inundated
- Saturated in upper 12 inches
- Water Stains
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):

- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test

Other: __________

CRITERIA MET? YES NO

Comments: Topographically slightly above SP7

DETERMINATION

WETLAND? YES NO

Comments: Fill here is more inpenetrable due to larger rock. Plot impacted by pre-1972 slope fill due to sidecast and levee construction. see SP 7 notes.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks Satre Associates, P.C.
Plant Community: Grassy Lawn/Meadow
Plot location: Western edge of SP7

Recent Weather: Means been 50-degrees, partly cloudy, 0.14" precipitation, 0.34" month

Do normal environ. conditions exist? Y  N  No, if explain:

Has Vegetation  Soil  Hydrology been significantly disturbed?

Explain: Site was recently mowed typical of management, although plants are still recognizable regardless of recent mowing

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Festuca arundinacea*</td>
<td>FAC- 90 83</td>
</tr>
<tr>
<td>2. Trifolium repens*</td>
<td>FAC+ 10 9</td>
</tr>
<tr>
<td>3. Poa annua*</td>
<td>FAC 6 5</td>
</tr>
<tr>
<td>4. Plantago lanceolata*</td>
<td>FACU 3 3</td>
</tr>
<tr>
<td>5. Hypochaeris radicata</td>
<td>FACU 1 1</td>
</tr>
<tr>
<td>6. Rumex pusillus</td>
<td>FACU 1 1</td>
</tr>
<tr>
<td>7. Taraxicum officinale</td>
<td>FACU 1 1</td>
</tr>
<tr>
<td>8. Rumex crispus</td>
<td>FACU 1 1</td>
</tr>
<tr>
<td>9. Rumex acetosella</td>
<td>FACU 1 1</td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBIL, FACW, FAC (not FAC-): 9%
Other Hydrophytic Vegetation Indicators:

Criteria Met? YES  NO  Comments: Used all significant vegetation to calculate dominance due to weed, seeded field.

SOILS

Map Unit Name: 44A Consol Clay Loam
On Hydric Soils List? Y  N  Has hydric inclusions? Y  N

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 12&quot;</td>
<td>10yr 4/3</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

 refusal due to

Hydric Soil Indicators:
- Histosol
- Histic Eutrochron
- Sulfidic Color
- Reducing Conditions (less positive)
- Gleyed or low chroma colors
- Redox features within 10" (e.g., concentrations)
- Concretions/Nodules (with 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator); ___

Criteria Met? YES  NO  Comments: Fill needs to be penetrated to reach native profile.

HYDROLOGY

Recorded Data Available  Aerial Photos  Stream gauge  Other  No Recorded Data Available
Field Data
- Depth of inundation: None
- Depth to Saturation: None
- Depth to free water: None

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water Marks
- Drift Lines
- Sediment Deposits
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other: ___

Criteria Met? YES  NO  Comments: ___

DETERMINATION

WETLAND? YES  NO  Comments: Fill either originally deeper or has settled less than SP7 due to differentiated water table. Need to monitor hydrology to finalize unless fill can be established earlier than CWA.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ State Associates, P.C.
Plant Community: Grassy Lawn/Meadow
Plot location: Western end of soccer field just northwest of goal posts
Recent Weather: Mean temp 50-degrees, partly cloudy. 0.14" precipitation. 0.34" month to date precipitation
Do normal conditions exist? Y □ N □ Explain: Site was recently mowed typical of management. although plants are still recognizable regardless of recent mowing. Soil profile seems intact below fill

Has Vegetation Soils Hydrology been significantly disturbed? Y □ N □ Explain: Site was recently mowed typical of management. although plants are still recognizable regardless of recent mowing. Soil profile seems intact below fill

Recent Weather: Mean temp 50-degrees, partly cloudy. 0.14" precipitation. 0.34" month to date precipitation

Do normal conditions exist? Y □ N □ If No, explain: Site was recently mowed typical of management. although plants are still recognizable regardless of recent mowing. Soil profile seems intact below fill

Has Vegetation Soils Hydrology been significantly disturbed? Y □ N □ Explain: Site was recently mowed typical of management. although plants are still recognizable regardless of recent mowing. Soil profile seems intact below fill

VEGETATION

Tree Stratum
1. Festuca arundinacea *
2. Mentha aquatica *
3. Hordeum jubatum *
4. Poa annua *
5. Rumex crispus *
6. _
7. _
8. _
9. _
10. _
11. _

Herb Stratum
1. Festuca arundinacea *
2. Mentha aquatica *
3. Hordeum jubatum *
4. Poa annua *
5. Rumex crispus *
6. _
7. _
8. _
9. _
10. _
11. _

Plant Community: Grassy lawn/Meadow
Plot location: Western end of soccer field just northwest of goal posts

SOILS

Map Unit Name: 44A Conser clay loam

On Hydric Soils List? Y □ N □ Has hydric inclusions? Y □ N □

Depth Range of Horizon

0 - 1'
2 - 4'
4 - 8'
8 - 17'

Map Unit Name: 44A Conser clay loam

On Hydric Soils List? Y □ N □

Saturated in upper 12 inches
Water marks
Drift lines
Sediment deposits
Drainage patterns

Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required):

Inundated
Saturated in upper 12 inches
Water-stained leaves
Local soil survey data
FAC-Neutral Test

Criteria Met? YES □ NO □ Comments: This is an insignificant area and is negligible unless considered contiguous beneath fill across entire soccer field. Vegetation and hydrology strong within atypical plot. See sp 7 notes on fill date.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Park/ Caleb Associates, P.C.
Plot Community: Grassy Lawn/ Meadow
Plot location: Northwest corner of soccer field within a slight topographic depression

Recent Weather: Mean temps 50-degrees, partly cloudy, 0.14" precipitation, 0.34" month to date precipitation

Do normal env conditions exist? Y N □ If No, explain:

Has Vegetation (□ Soil □ Hydrology) been significantly disturbed?
Explain: Site was recently mowed (typical of management), although plants are still recognizable regardless of recent mowing

VEGETATION

Tree Stratum

1. __________ Status/ Raw % Cover Rel % Cover
1. Hordeum jubatum * FAC 32 33
2. __________
2. Mantha pulchra * OBL 22 22
3. __________
3. Plagiobothrus cf. fusciformis * FACW 18 24

Herb Stratum

1. Hordeum jubatum * FAC 25 33
2. Mantha pulchra * OBL 22 22
3. Plagiobothrus cf. fusciformis * FACW 18 24

Plant Community: Grassy Lawn/ Meadow
Plot location: Northwest corner of soccer field within a slight topographic depression

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 100%

Other Hydrophytic Vegetation Indicators: __

SOILS

Map Unit Name: 44A Corner clay loam

On Hydric Soils List? Y □ N □ Has hydric inclusions? Y □ N □

Depth Range of Horizon Matrix Color Redox Concentrations* Redox Depletions*
0 - 6" 10yr 3/S 5yr 6/8 soft masses C/D/M=1% SCL+fill
6 - 16" 2.5yr 3/S 5yr 6/8 soft masses C/D/M=5% SCL+fill

Hydric Soil Indicators:
□ Histosol □ Histic Epipedon □ Organic staining (in Sandy Soils)
□ Sulfidic Odor □ Organic streaking (in Sandy Soils)
□ Reducing Conditions (tests positive) □ Organic pan (in Sandy Soils)
□ Grayed or low chroma colors □ Listed on Hydric Soils List (and soil profile matches)
□ Redox features within 10" (e.g., concentrations) □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)

Criteria Met? YES □ NO □ Comments: Profile is fill to 6" - old horizon visible at 6-7

HYDROLOGY

Recorded Data
□ Recorded Data Available □ Aerial Photos □ Stream gauge □ Other □ No Recorded Data Available

Field Data

Depth of inundation: None Depth to Saturation: None Depth to free water: None

Primary Hydrology Indicators:
□ Inundated □ Saturated in upper 12 inches □ Oxidized Root Channels (upper 12")
□ Water Marks □ Local Soil Survey Data □ Water-stained Leaves
□ Drift Lines □ FAC-Neutral Test □ Sediment Deposits
□ Drainage Filled

Criteria Met? YES □ NO □ Comments:

DETERMINATION

WETLAND? YES □ NO □ Comments: This area is insignificant and negligible unless considered contiguous beneath fill across entire soccer field. See sp? notes on fill.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Park/ Sage Associates, P.C.
Plant Community: Grassy Lawn/Meadow
Plot location: Just inland and northeast of SP11 in northwest corner of soccer field
Recent Weather: Mean temp 50 degrees, partly cloudy. 0.14" precipitation. 0.34" month to date precipitation
Do normal environmental conditions exist? Y
If No, explain: __
Has Vegetation Soil Hydrology been significantly disturbed? Y
Explain: Site was recently mowed (typical of management), although plants are still recognizable regardless of recent mowing

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover</th>
<th>Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum</th>
<th>Status/ Raw % Cover</th>
<th>Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC): 33%
Other Hydrophylic Vegetation Indicators:
Criteria Met? YES
Comments: ___

SOILS

Map Unit Name: 44A Conifer silty loam
On Hydric Soils List? Y
Has hydric inclusions? Y

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations</th>
<th>Redox Depletions</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>10yr 3/3</td>
<td></td>
<td></td>
<td>Fill</td>
</tr>
<tr>
<td>6-16</td>
<td>2.5yr 3/2</td>
<td></td>
<td></td>
<td>SCL</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- Histosol
- Histic Epipedon
- Sulfidic Odor
- Reducing Conditions (tests positive)
- Gleyed or low chroma colors
- Redox features within 10" (e.g., concentrations)

Criteria Met? YES
Comments: ___

HYDROLOGY

Recorded Data
- Recorded Data Available
- Aerial Photos
- Stream gauge
- Other
- No Recorded Data Available

Field Data
- Depth of inundation: None
- Depth to Saturation: None
- Depth to free water: None

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water Marks
- Drift Lines
- Sediment Deposits
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12"
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other: ___

Criteria Met? YES
Comments: ___

DETERMINATION

WETLAND? YES

Comments: Represents deeper fill and lack of hydrology within 12". Fill from road along Sutherlin Creek is from levee, not from field fill. Levee appears to be built from side cast material from Sutherlin Creek. BPJ debates that this plot represents the edge of fill from levee and beginning of fill from the soccer field.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas
City: Sutherlin
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.
Plant Community: Grassly Lawn/ Meadow
Plot location: East-southeast of eastern goal of soccer field
Recent Weather: Mean temp 50-degrees, partly cloudy. 0 14" of rainfall, 0.34" month to date precipitation
Do normal environ. conditions exist? Y [ ] N [ ] If No, explain: __

Has Vegetation □ Soil □ Hydrology □ been significantly disturbed? Explain: __

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status (Raw % Cover/ Raw % Cover)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sedge/Shrub Stratum</th>
<th>Status (Raw % Cover/ Raw % Cover)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Status (Raw % Cover/ Raw % Cover)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Festuca arundinacea *</td>
<td>FAC 30 24</td>
</tr>
<tr>
<td>2. Acorus tataricus *</td>
<td>FAC 30 24</td>
</tr>
<tr>
<td>3. Juncus arcticus *</td>
<td>UPL 15 12</td>
</tr>
<tr>
<td>4. Juncus ensifolius *</td>
<td>FACW 16 12</td>
</tr>
<tr>
<td>5. Hordeum jubatum *</td>
<td>FAC 10 8</td>
</tr>
<tr>
<td>6. Glyceria occidentalis *</td>
<td>OBL 10 8</td>
</tr>
<tr>
<td>7. Carex danae *</td>
<td>OBL 10 8</td>
</tr>
<tr>
<td>8. Veronica prostrata var. saturea</td>
<td>UPL 3 2</td>
</tr>
<tr>
<td>9. Triodanthes umbellata</td>
<td>FAC* 1 1</td>
</tr>
<tr>
<td>10. Rumex crispus</td>
<td>FAC* 1 1</td>
</tr>
<tr>
<td>11. Ranunculus occidentalis</td>
<td>FAC 1 1</td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 71%
Other Hydrophytic Vegetation Indicators: __
Criteria Met? YES [ ] NO [ ] Comments: Used too 7 dominant species due to lack of other stratum.

SOILS

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations' *</th>
<th>Redox Depletions' *</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 9&quot;</td>
<td>10yr 3/2</td>
<td>5yr 5/8 CAMO</td>
<td></td>
<td>SC</td>
</tr>
<tr>
<td>10 - 26&quot;</td>
<td>10yr 2.5/1</td>
<td>Too different to distr</td>
<td></td>
<td>SC</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- □ Histosol
- □ Histic Epipedon
- □ Sulfidic Odor
- □ Reducing Conditions (tests positive)
- □ Gleied or low chroma colors
- □ Redox features within 10" (e.g., concentrations)
- □ Concretions/Nodules (w/fn 8"; > 2mm)
- □ High organic content in surface (in Sandy Soils)
- □ Organic streaking (in Sandy Soils)
- □ Organic pan (in Sandy Soils)
- □ Listed on Hydric Soils List (and soil profile matches)
- □ Meets hydric soil criteria 3 or 4 (flooded for long duration)
- □ Supplemental indicator (e.g., NRCS field indicator): __

Criteria Met? YES [ ] NO [ ] Comments: Probably a more typical soil - outside fill from soccer field.

HYDROLOGY

Recorded Data
- □ Recorded Data Available
- □ Aerial Photos
- □ Stream gauge
- □ Other
- □ No Recorded Data Available

Field Data
- Depth of inundation: None
- Depth to Saturation: None
- Depth to free water: None

Primary Hydrology Indicators:
- □ Inundated
- □ Saturated in upper 12 inches
- □ Water Marks
- □ Drift Lines
- □ Sediment Deposits
- □ Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- □ Oxidized Root Channels (upper 12")
- □ Water-stained Leaves
- □ Local Soil Survey Data
- □ FAC-Neutral Test
- □ Other: __

Criteria Met? YES [ ] NO [ ] Comments: Hydrology may be caused by fill in SP14, now a normal environmental circumstance.

DETERMINATION

WETLAND? YES [X] NO [ ] Comments: Seasonal wetland constricted by historic fill to north. This section of wetland marked by distinct fall out of Juncus Spp. in upland and district fill pattern, apparent in photographs as pre-1972...
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Date: 02/May/2007  File #: 0349
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.
Plot location: -15 ft north of plot center of SP13

Recent Weather: Mean temp 50-degrees F, partly cloudy, 0.14" precipitation, 0.34" month to date precipitation
Do normal envon, conditions exist? Y [ ] N [ ]  If No, explain: __
Has Vegetation Soil Hydrology been significantly disturbed? Y [ ] N [ ]
Explaining: __

[Table: Plot Location, Recent Weather, Normal Conditions, Vegetation, Soil, Hydrology]

Tree Stratum
1. __________________ Status/ Raw % Cover/ Rel % Cover
2. __________________
3. __________________
4. __________________
5. __________________

Shrub/Grass Stratum
1. __________________ Status/ Raw % Cover/ Rel % Cover
2. __________________
3. __________________
4. __________________
5. __________________

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): __%

Other Hydrophytic Vegetation Indicators: __
Criteria Met? YES [ ] NO [ ] Comments: __

SOILS

Map Unit Name: 44A Consersilv clay loam

Depth Range

Matrix Color

Redox Concentrations

Redox Depletions

Texture

0 - 10" 10yr 4/3 Scarcen, too faint cobby fill
10 - 16" 2.5yr 4/3 7.5yr 5/6 F/F/D

Hydric Soil Indicators:
☐ Histosol
☐ Halo-Epipedon
☐ Sulfidic Ochre
☐ Reducing Conditions (tests positive)
☐ Glyced, or low red colors
☐ Redox features within 10" (e.g., concentrations)
☐ Concretions/Nodules (w/ln 3"; > 2mm)
☐ High organic content in surface (in Sandy Soils)
☐ Organic streaking (in Sandy Soils)
☐ Organic pan (in Sandy Soils)
☐ Listed on Hydric Soils List (and soil profile matches)
☐ Meets hydrologic soil criteria 3 or 4 (ponded or flooded for long duration)
☐ Supplemental indicator (e.g., NRCS field indicator): __

Criteria Met? YES [ ] NO [ ] Comments: __%

HYDROLOGY

Recorded Data
☐ Recorded Data Available  ☐ Aerial Photos  ☐ Stream gauge  ☐ Other  ☐ No Recorded Data Available
Field Data
Depth of inundation: None  Depth to Saturation: None  Depth to free water: None
Primary Hydrology Indicators:
☐ Inundated
☐ Saturated in upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patterns
Secondary Hydrology Indicators (2 or more required):
☐ Oxidized Root Channels (upper 12")
☐ Water-stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other: __

Criteria Met? YES [ ] NO [ ] Comments: __

DETERMINATION

WETLAND? YES [ ] NO [ ] Comments: Fill is obvious, rectangular and easy to distinguish where the wetland boundary conforms to the edges. May be necessary to confirm hydrology + soils in spring. Ultimately, this fill appears in photos to be old with fill between 1950 and 1960. Expanded between 1960 and 1967 torn down buildings by 1979.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.
Plant Community: Open Meadow
Plot location: South of plots SP13 and SP14

Recent Weather: Mean temp 66-degress, sunny, no precipitation, 0.74" month to date precipitation

Do normal environ. conditions exist? Y [ ] N [x]  If No, explain: 

Has Vegetation [ ] Soil [ ] Hydrology [ ] been significantly disturbed? 

Yes [ ] No [ ] Explain: Possibly till material. but not judged as recent.

File # 0349  Del. by: Brian Melierio/ Susie Holmes  Plot # SP16

---

**VEGETATION**

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Herb Stratum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status/ Raw % Cover/ Rel % Cover</td>
<td>Status/ Raw % Cover/ Rel % Cover</td>
</tr>
<tr>
<td>1.</td>
<td>1. Festuca arundinacea</td>
</tr>
<tr>
<td>2.</td>
<td>2. Agrostis cf. ternis</td>
</tr>
<tr>
<td>3.</td>
<td>3. Triodanthera brevifolia</td>
</tr>
<tr>
<td>4.</td>
<td>4. Hypochaeris radicata</td>
</tr>
<tr>
<td>5.</td>
<td>5. Hordeum jubatum</td>
</tr>
<tr>
<td>6.</td>
<td>6. Rumex crispus</td>
</tr>
<tr>
<td>7.</td>
<td>7. Centaurea paniculata</td>
</tr>
<tr>
<td>8.</td>
<td>8. Bidens penna-annularis</td>
</tr>
<tr>
<td>9.</td>
<td>9. Geranium dissectum</td>
</tr>
<tr>
<td>10.</td>
<td>10. Myosotis discolor</td>
</tr>
</tbody>
</table>

---

**SOILS**

Map Unit Name: 44A Consol silty clay loam  Drainage Class: Poorly drained


Depth Range of Horizon  Matrix  Color  Redox Concentrations*  Redox Depletions  Texture

| 0 - 9" | 2.6yr/ 3/3 | 7.6yr/ 6/6 F/F/D | SCL |

---

**HYDROLOGY**

Recorded Data Available

Recorded Data Available

Aerial Photos  Stream gauge  Other  No Recorded Data Available

Field Data

Depth of Inundation: None  Depth to Saturation: None  Depth to free water: None

Primary Hydrology Indicators:

- Flooded
- Sulfidic Odor
- Reducing Conditions (tests positive)
- Gleyed or low chroma colors
- Redox features within 10". (e.g., concentrations)

Secondary Hydrology Indicators (2 or more required):

- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data  FAC-Neutral Test  Other:

Criteria Met? YES [ ] NO [x]  Comments: Refusal due to gravel and rock, soil mixed with some cobble. Redox successus soils now hydric.

---

**DETERMINATION**

WETLAND? YES [ ] NO [x]  Comments: Point taken to describe a slightly higher bench that runs east-west along the southern side of the swals described by SP13. Need to monitor hydrology + do further soil sampling in the spring if mandated to confirm a lack of hydrology.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  
City: Sutherlin  
Date: 09/May/2007  
File #: 0349  
Det. by; Brian Melering/ Susie Holmes  
Plot #: SP16

Plant Community: Open Meadow  
Plot location: Plot is located just southwest of SP15 within ditch along south edge of field.  

Recent Weather: Mean temp 65-degrees. partly cloudy. no precipitation. 0.74" month to date precipitation.

Do normal environ. conditions exist? Y  
Has Vegetation Soil Hydrology been significantly disturbed?  
Explain: Atypical ditch somewhat void of vegetation... plot size too large and extended well outside of ditch.

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 25%

Other Hydrophytic Vegetation Indicators: see list of non-dominant species in herb straturn

On Hydric Soils List? Y  
Has hydric inclusions? Y

Depth Range of Horizon  
Matrix Color  
Redox Concentrations  
Redox Depletions*

0 - 5" 2.5yr 3/2 10yr 4/3 Fixed
5 - 17" 2.5yr 4/2 10yr 6/8 C/M/D Matrix

Hydric Soil Indicators:
- Histosol
- Sulfidic Odor
- Organic Pan (in Sandy Soils)
- Organic material in surface (in Sandy Soils)
- Organic Carbon (in Sandy Soils)
- Meets hydric soil criteria 3 or 4 (pended or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator): ___

SOILS

Map Unit Name: 44A Conser silty clay loam  
Drainage Class: Poorly drained

On Hydric Soils List? Y  
Has hydric inclusions? Y

Depth Range of Horizon  
Texture

0 - 5" 2.5yr 3/2 SCL
5 - 17" 2.5yr 4/2 CL

Hydric Soil Indicators:
- Histosol
- Organic Pan (in Sandy Soils)
- Organic Carbon (in Sandy Soils)
- Meets hydric soil criteria 3 or 4 (pended or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator): ___

Criteria Met? YES  
Comments: 

HYDROLOGY

Recorded Data
- Recorded Data Available  
- Aerial Photos  
- Stream gauge  
- Other  
- No Recorded Data Available

Field Data
- Depth of Inundation: None  
- Depth to Saturation: 0"  
- Depth to free water: None

Primary Hydrology Indicators:
- Inundated
- Saturated In upper 12 inches
- Ditch Lines
- Water mark
- Sediment Deposits

Secondary Hydrology Indicators (2 or more required):
- Local Soil Survey Data
- FAC-Neutral Test
- Other: ___

Criteria Met? YES  
Comments: Saturated within 1" but dry below. (due to heavy clay.)

WETLAND? YES  
Comments: Plot taken to characterize a perimeter ditch running along the North side of houses at the southern edge of soccer field. Veg not strong, but atypical situation leads to BPJ that normal circumstances would exhibit more wetland vegetation and straightforward hydrology.
**DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method**

**County:** Douglas  
**City:** Sutherlin  
**Project/Contact:** Sutherlin Parks/ Satre Associates, P.C.

**Plant Community:** Disturbed muddy seasonally emergent lowland  
**Plot Location:** Plot is in a small lowland area within the middle of a roadbed where vegetation has persisted  
**Recent Weather:** Mean temp 66-degrees partly cloudy, no precipitation, 0.74" month to date precipitation

**Do normal conditions exist?** Y [ ] N

**Has vegetation been significantly disturbed?** Y [ ] N

**Explain:** Muddy ruts indicate recent traffic leading to compacted soils and disturbed vegetation.

### VEGETATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
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<tr>
<td>2.</td>
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<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Strum</td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
</tbody>
</table>

**Herb Stratum**

<table>
<thead>
<tr>
<th>Species</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Glyceria occidentalis</em></td>
<td>OBL 50 68</td>
</tr>
<tr>
<td>2. <em>Lemna minor</em></td>
<td>OBL 10 14</td>
</tr>
<tr>
<td>3. <em>Ludwigia palustris</em></td>
<td>OBL 8 11</td>
</tr>
<tr>
<td>4. <em>Hordeum jubatum</em></td>
<td>FAC 3 4</td>
</tr>
<tr>
<td>5. <em>Festuca arundinacea</em></td>
<td>FAC- 3 4</td>
</tr>
<tr>
<td>6. <em>Veronica cf. serpentina</em></td>
<td>OBL 1 1</td>
</tr>
<tr>
<td>7. <em>Plagiobothrys cf. laevis</em></td>
<td>FACW 1 1</td>
</tr>
<tr>
<td>8. <em>Menphis purpurata</em></td>
<td>OBL 1 1</td>
</tr>
<tr>
<td>9. <em>Heterothamnion discodiscoides</em></td>
<td>NOX 1 1</td>
</tr>
<tr>
<td>10.</td>
<td></td>
</tr>
</tbody>
</table>

**Percent of Dominant Species that are OBL, FAC, FAC (not FAC-): %**

**Other Hydrophytic Vegetation Indicators:**

**Criteria Met?** YES [ ] NO [ ]
**Comments:** <50% devoid of vegetation, standing water 2-3".

### SOILS

**Map Unit Name:** 44A Conifer silty clay loam  
**Drainage Class:** poorly drained

**Hydric Soil Indicators:**

- Histosol
- Histic Epipedon
- Sulfidic Eplpedon
- Grayed or low chroma colors
- Redox features within 10" (e.g., concentrations)
- Concretions/Nodules (within 3") > 2mm
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)

**Criteria Met?** YES [ ] NO [ ]
**Comments:** cracked soil surface along dried out margins. Atypical soils and hydrology due to compaction, used SP13 for reference

### HYDROLOGY

**Recorded Data Available**

**Field Data**

- Depth of inundation: 3  
- Depth to free water:

**Primary Hydrology Indicators:**

- Leached
- Saturated in upper 12 inches
- Water Marks
- Drift Lines
- Sediment Deposits
- Drainage Patterns

**Secondary Hydrology Indicators (2 or more required):**

- Odored Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other

**Criteria Met?** YES [ ] NO [ ]
**Comments:** 2-3" standing water in lowest area. Atypical hydrology referenced to SP13.

### DETERMINATION

**WETLAND?** YES [ ] NO [ ]
**Comments:** Disturbed road bed (2 track). North of this plot was filled before 70's w/ 1-3 feet which tapers into edge of this wetland.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin  Date: 06/May/2007  File #: 0249  Det. by: Brian Melaring/ Susie Holmes  File #: 0349  PLOT #: 01P-19  Plant Community: Ash Woodland becoming Open Meadow

Recent Weather: Mean temp 66-degrees, mostly cloudy, no precipitation, 0.74" month to date precipitation
Do normal env. conditions exist? Y N  If No, explain: __
Has vegetation/L soil/Hydrology been significantly disturbed? Explain: __

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fraxinus latifolia*</td>
<td>FACW 70 100</td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
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</tbody>
</table>

Sapling/Shrub Stratum

<table>
<thead>
<tr>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fraxinus latifolia*</td>
</tr>
<tr>
<td>2. Rubus armeniacus</td>
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<td>4.</td>
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<td>5.</td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 75%
Other Hydrophytic Vegetation indicators:
Criteria Met? YES ☑ NO  Comments:

SOILS

Map Unit Name: 44A Conifer silty clay loam  Drainage Class: poorly drained

On Hydric Soils List? Y ☑ N ☐  Has hydric inclusions? Y ☑ N ☐

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5&quot;</td>
<td>2.5yr 3/2</td>
<td>7.5yr 6/8 CM/DM/Matrix</td>
<td>SCL</td>
</tr>
<tr>
<td>5 - 19&quot;</td>
<td>2.5yr 3/2</td>
<td>10yr 5/8 CM/DM/Redox channels</td>
<td>10% 3/1 10%</td>
</tr>
<tr>
<td>5-19&quot;</td>
<td>2.5yr 3/2</td>
<td>10yr 5/8 CM/DM/Redox channels</td>
<td>10yr 2.5/1 30%</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- Histosol
- Halic Epipedon
- Sulfidic Odor
- Reducing Conditions (tests positive)
- Oxidized Root Channels (within 10")
- Redox features within 10" (e.g., concentrations)

Criteria Met? YES ☑ NO  Comments:

HYDROLOGY

Recorded Data
- Recorded Data Available ☑  Aerial Photos ☐  Stream gauge ☐  Other ☐  No Recorded Data Available

Field Data
- Depth of inundation: 9"  Depth to Saturation: 17"  Depth to free water: 19"

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water Marks
- Drain Lines
- Sediment Deposits
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other:  

Criteria Met? YES ☑ NO  Comments:

WETLAND? YES ☑ NO  Comments: Plot taken within isolate ash stand within the north/central portion of the site. Used in conjunction with SP19 to define WL boundary defined by levee fill slope.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.
Plant Community: Open Meadow
Plot location: Plot is last northeast and upland of SP18

Recent Weather: Mean temp 59-62 degrees, partly cloudy, no precipitation. 0.74" month to date precipitation

Do normal environmental conditions exist? Y □ N □ If No, explain: Levee fill slope/clinically non-soil

Has Vegetation  □ Soil  □ Hydrology been significantly disturbed? Explain: Levee fill slope/clinically non-soil

File # 0349
Det. by: Brian Melarina/ Susie Holmes
Plot # SP18

VEGETATION

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Status/ Raw % Cover</th>
<th>Rel % Cover</th>
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<tbody>
<tr>
<td>Tree Stratum</td>
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<tr>
<td>Sedine/Shrub Stratum</td>
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<td>4.</td>
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<td>5.</td>
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</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 33%

Other Hydrophylic Vegetation Indicators:

Criteria Met? YES □ NO □ Comments: FAC neutral test also confirms no dominant hydrophylic veg (33%). Weedy community typical of fill slope.

SOILS

Map Unit Name: 44A Conser silty clay loam
Drainage Class: poorly drained

On Hydric Soils List? Y □ N □ Has hydric inclusions? Y □ N □

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix</th>
<th>Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refusal @ 2&quot;</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- Histosol
- Histic Epipedon
- Sulfidic Odor
- Reducing Conditions (tests positive)
- Oligotrophic or low chorma colors
- Redox features within 10" (e.g., concentrations)
- Blackening/concretions (with 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator): ___

Criteria Met? YES □ NO □ Comments: Physical fill at 3’ (approach of slopefill for levee), refusal due to slopefill

HYDROLOGY

Recorded Data
- Recorded Data Available □ No Recorded Data Available □
- Aerial Photos □ Stream gauge □ Other

Field Data
- Depth of inundation: None
- Depth to Saturation: unknown
- Depth to free water: unknown

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water Marks
- Dritt Lines
- Sediment Deposits
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other: ___

Criteria Met? YES □ NO □ Comments: ___

DETERMINATION

WETLAND? YES □ NO □ Comments: Plot taken to characterize levee slope.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  
City: Sutherlin  
Plant Community: Open Meadow

Project/Contact: Sutherlin Parks/ Sutherlin Associates, P.C.  
Del by: Brian Meierinol Susie Holmes

Plot location: Plot is just northwest of northwest corner of rodeo and just south/southeast of road across from wooded area of plot SP19

Recent Weather: Mean temp. 60-degrees, partly cloudy, no precipitation, 0.74" month to date precipitation

Vegetation moderately influenced by recreational use of area as a rodeo arena viewing fenceline.

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>1. Festulina graminea*</td>
<td>FAC- 90</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>2. Trifolium repens*</td>
<td>FACW+ 18</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>3. Alopecurus pratensis*</td>
<td>FACW 15</td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td>Status/ Raw % Cover/ Rel % Cover</td>
<td>4. Agrostis tenua*</td>
<td>FAC 10</td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td>5. Bellis perennis</td>
<td>UPL 3</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>6. Liliun serentia</td>
<td>FAC 2</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>7. Medicago polymorpha</td>
<td>UPL 3</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>8.</td>
<td>UPL 2</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td>9.</td>
<td>UPL 4</td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC): 50%

Hydric Soils Indicators:

- Histosol
- Histosol Epipedon
- Sulphide Odor
- Silted or low chroma colors

Other Hydrophytic Vegetation indicators:

- Oxidized Root Channels (upper 12"
- Water-stained Leaves
- Local Soil Survey Data

Soils very strongly characteristic of wetlands in this area.

Recorded Data

- Recorded Data Available
- Aerial Photos
- Stream gauge
- Other
- No Recorded Data Available

Field Data

- Depth of inundation: None
- Depth to Saturation: None
- Depth to free water: None

Primary Hydrology Indicators:

- Inundated
- Saturated in upper 12 inches
- Water Tracks
- Drain Lines
- Sediment Deposits
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):

- Oxidized Root Channels (upper 12"
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other

WETLAND? YES NO Comments: Best professional judgement based on soils only. Hydrology questionable and could be monitored in spring to confirm determination.
**DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method**

**County:** Douglas  
**City:** Sutherlin  
**Date:** 09/May/2007  
**File #: 0346**  
**Det. by:** Brian Meier  
**Plot #: SP21**

**Recent Weather:** Mean temp 56-degrees, partly cloudy, no precipitation, 0.74" month 10 date precipitation.

**Do normal environ. conditions exist?** Y  
**If No, explain:** 

**Has Vegetation, Soil or Hydrology been significantly disturbed?** 

**Explain:** Area used recreationally and creates a weedy, disturbed vegetation layer.

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**VEGETATION**

<table>
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<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1. Festuca arundinacea FAC: 70%</td>
</tr>
<tr>
<td>2.</td>
<td>2. Alopecurus pratensis FAC: 16%</td>
</tr>
<tr>
<td>3. etc.</td>
<td>3. Trifolium repens FACU: 8%</td>
</tr>
<tr>
<td>4. etc.</td>
<td>4. Medicago polymorpha NOIL: 7%</td>
</tr>
<tr>
<td>5. etc.</td>
<td>5. Agrostis stolonifera FAC: 4%</td>
</tr>
</tbody>
</table>

**Table continued...**

**SOILS**

**Map Unit Name:** 44A Coner silty clay loam  
**Drainage Class:** poorly

**On Hydric Soils List?** Y  
**Has hydric inclusions?** Y

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix</th>
<th>Color</th>
<th>Redox Concentrations</th>
<th>Redox Depletions</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 8</td>
<td>2.5 yr</td>
<td>3/2</td>
<td>2.5 yr 3/2</td>
<td>SCL</td>
<td>SCL</td>
</tr>
<tr>
<td>8 - 16</td>
<td>2.5 yr</td>
<td>3/1</td>
<td>10 yr 7/8 Cl/Mg/Matrix</td>
<td>SCL</td>
<td>SCL</td>
</tr>
</tbody>
</table>

**Hydric Soil Indicators:**
- Histosol
- Histic Epipedon
- Reducing Conditions (tests positive)
- Gleyed or low chroma colors
- Redox features within 10' (e.g., concentrations)

**Criteria Met?** YES  
**Comments:** Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)

---

**HYDROLOGY**

**Recorded Data**
- Recorded Data Available  
- Aerial Photos
- Stream gauge
- Other

**Field Data**
- Depth of inundation: None  
- Depth to Saturation: None  
- Depth to free water: None

**Primary Hydrology Indicators:**
- Inundated
- Saturated in upper 12 inches
- Water Marks
- Drain Lines
- Sediment Deposits
- Drainage Patterns

**Secondary Hydrology Indicators (2 or more required):**
- Oxidized Root Channels (upper 12')
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test

**Criteria Met?** YES  
**Comments:** Hydrology not detectable due to slight topographic rise as in SP20.

---

**DETERMINATION**

**WETLAND?** YES  
**Comments:** Plot taken to judge slight topographic rise adjacent rodeo grounds. BPJ based determination on soils, as veg. + hydrology were problematic. Soils data strongly suggests that wetlands are present within the plot.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

**County:** Douglas  
**City:** Sutherlin  
**Project/Contact:** Sutherlin Park/ Satre Associates, P.C.  
**Plant Community:** Open Meadow  
**Plot location:** Plot isjust NE of SP21 within mud oil area  

**Recent Weather:** Mean temp 60-degress, partly cloudy, no precipitation. 0.74" month to date precipitation  

**Do normal environ. conditions exist?** Y No, explain: Vegetation problematic due to adjacent land use and unusually dry season.

**Plot#SP22**

---

### VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>1. Festuca arundinacea*</td>
<td>FAC- 40</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>2. Festuca microst*</td>
<td>FACU 10</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>3. Juncus tenuis*</td>
<td>FACW 10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Medicago polymorpha*</td>
<td>UPL 15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Hordeum jubatum</td>
<td>FAC 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6. Trifolium repens</td>
<td>FACU+ 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7. Bellis perennis</td>
<td>UPL 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8. Glyceria occidentalis</td>
<td>OBL 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9. Ranunculus occidentalis</td>
<td>FAC 1</td>
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<td>10.</td>
<td></td>
</tr>
</tbody>
</table>

**Sapling/Shrub Stratum**

<table>
<thead>
<tr>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Festuca arundinacea*</td>
<td>FAC- 40</td>
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<td>2. Festuca microst*</td>
<td>FACU 10</td>
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<tr>
<td>3. Juncus tenuis*</td>
<td>FACW 10</td>
</tr>
<tr>
<td>4. Medicago polymorpha*</td>
<td>UPL 15</td>
</tr>
<tr>
<td>5. Hordeum jubatum</td>
<td>FAC 5</td>
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<tr>
<td>6. Trifolium repens</td>
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<tr>
<td>7. Bellis perennis</td>
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<tr>
<td>8. Glyceria occidentalis</td>
<td>OBL 1</td>
</tr>
<tr>
<td>9. Ranunculus occidentalis</td>
<td>FAC 1</td>
</tr>
<tr>
<td>10.</td>
<td></td>
</tr>
</tbody>
</table>

**Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):** 36%  

**Other Hydrophytic Vegetation Indicators:**

**Criteria Met?** YES  
**Comments:** Vegetation problematic due to unseasonably low recp. and disturbed land use history.

---

### SOILS

**Map Unit Name:** 44A Conser silty clay loam  
**Drainage Class:** poorly drained  

**Depth Range of Horizon**  
**Matrix**  
**Color**  
**Redox Concentrations’ Redox DepletIons’**

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix</th>
<th>Color</th>
<th>Redox Concentrations’ Redox DepletIons’</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 8</td>
<td>2.5yr 3/2</td>
<td>SCL</td>
<td></td>
</tr>
<tr>
<td>8 - 16</td>
<td>2.5 yr 3/1</td>
<td>10 yr 7/8 C/M/D/matrix</td>
<td>SCL</td>
</tr>
</tbody>
</table>

**Hydric Soil Indicators:**  
- Histosol  
- Histic Epipedon  
- Sulfidic Color  
- Reducing Conditions (tests positive)  
- Gleyed or low chroma colors  
- Redox features within 10" (e.g., concentrations)  
- Concretions/Nodules (within 3"; > 2mm)  
- High organic content in surface (in Sandy Soils)  
- Organic streaking (in Sandy Soils)  
- Organic pan (in Sandy Soils)  
- Listed on Hydric Soils List (and soil profile matches)  
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)  
- Supplemental indicator (e.g., NRCS field indicator):  

**Criteria Met?** YES  
**Comments:**  

---

### HYDROLOGY

**Recorded Data**: Yes  
**Aerial Photos**:  
**Stream gauge**:  
**Other**:  
**No Recorded Data Available**:  

**Field Data**:  
**Depth of Inundation**: None  
**Depth to Saturation**: None  
**Depth to free water**: None  

**Primary Hydrology Indicators:**  
- Inundated  
- Saturated in upper 12 inches  
- Water Marks  
- Drift Lines  
- Sediment Deposits  
- Drainage Patterns  

**Secondary Hydrology Indicators (2 or more required):**  
- Oxidized Root Channels (upper 12")  
- Water-stained Leaves  
- Local Soil Survey Data  
- FAC-Neutral Test  
- Other:  

**Criteria Met?** YES  
**Comments:** Obvious deep/ wide soil cracks  

---

### DETERMINATION

**WETLAND?** YES  
**Comments:** Determination based on soils and hydrology.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin  Date: 06/May/2007  File #: 0049
Project/Contact: Sutherlin Parks/ Sate Associates, P.C.  Det. by: Brian Meiering/ Susie Holmes
Plant Community: Open Meadow  Plot #: 9P23
Plot location: Plot is in SW corner of rodeo arena area
Recent Weather: Mean temp 65-degrees, partly cloudy, no precipitation. 0.74” month to date precipitation
Do normal eniron. conditions exist? Y (Y) □ No, explain: If No, explain:
Has Vegetation Soil Hydrology been significantly disturbed? Explain: Area used for rodeo, soils compressed by horses, veg. trampled, creates low point within rodeo.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>1. Festuca arundinacea FAC: 5 5</td>
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<tr>
<td>2.</td>
<td></td>
<td>2 Glyceria occidentalis OBL: 100 95</td>
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<td>3.</td>
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</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FAC, FAC (not FAC): 100%
Other Hydrophytic Vegetation Indicators: Criteria Met? YES □ NO □ Comments: Used only Glyceria because it was almost a monoculture.

SOILS

Map Unit Name: 44A Conifer silty clay loam  Drainage Class: poorly drained
On Hydric Soils List? Y □ N □ Has hydric inclusions? Y □ N □

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations</th>
<th>Redox Depletions</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 8</td>
<td>2.5 yr 3/2</td>
<td></td>
<td></td>
<td>SCL</td>
</tr>
<tr>
<td>8 - 10</td>
<td>2.5 yr 3/1</td>
<td>10 yr 7/8</td>
<td></td>
<td>C/M D/matrix</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:

- Histosol
- Histic Epipedon
- Nonlimiting Oxic
- Reducing Conditions (tests positive)
- Gleyed or low chroma colors
- Redox features within 10” (e.g., concentrations)

Criteria Met? YES □ NO □ Comments:___________________________________________

HYDROLOGY

Recorded Data

- Recorded Data Available □ Aerial Photos □ Stream gauge □ Other □ No Recorded Data Available
Field Data

- Depth of Inundation: None      Depth to Saturation: None      Depth to free water: None
Primary Hydrology Indicators:

- Uninundated
- Saturated in upper 12 inches
- Water Marks
- Drain Lines
- Sediment Deposits
- Drainage Patterns

Criteria Met? YES □ NO □ Comments: Soil is dry and widely cracked

DETERMINATION

WETLAND? YES □ NO □ Comments: This plot defines the outer edge of the rodeo grounds which was highly cracked mud at the point when the survey was taken. Gate surrounding rodeo defines a boundary of the depression explicitly.
**DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method**

County: Douglas  
City: Sutherlin  
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.  
Plant Community: Open Meadow  
Plot location: Plot is just north of upland, at SP25 and east of western flooded popcorn cover site  
Recent Weather: Mean temp 66-degrees, partly cloudy, no precipitation, 0.14" month to date precipitation  
Do normal environmental conditions exist? Y  
Has Vegetation been significantly disturbed? Explain: __  

---

**VEGETATION**

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Total Plot Cover:</th>
<th>%</th>
<th>50%</th>
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<th>Status/ Raw % Cover</th>
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<thead>
<tr>
<th>Sod/Grass Stratum</th>
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<th>%</th>
<th>20%</th>
<th>%</th>
<th>Status/ Raw % Cover</th>
<th>Rel % Cover</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Total Plot Cover:</th>
<th>%</th>
<th>50%</th>
<th>%</th>
<th>20%</th>
<th>%</th>
<th>Status/ Raw % Cover</th>
<th>Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Festuca arundinacea FACU</td>
<td>60</td>
<td>38</td>
<td></td>
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</tr>
<tr>
<td>2. Anthoxanthum odoratum FACU</td>
<td>50</td>
<td>32</td>
<td></td>
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</tr>
<tr>
<td>3. Bromus sitchensis FACU</td>
<td>30</td>
<td>16</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4. Agrostis tenuta FACU</td>
<td>10</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Stellaria media FACU</td>
<td>3</td>
<td>2</td>
<td></td>
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<td></td>
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<tr>
<td>6. Medicago polymorpha FACU</td>
<td>3</td>
<td>2</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>7. Juniperus communis FACU</td>
<td>3</td>
<td>2</td>
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<tr>
<td>8. Festuca verna FACU</td>
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<td>1</td>
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<tr>
<td>9. Poa annua FACU</td>
<td>1</td>
<td>1</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10. Bellis perennis FACU</td>
<td>1</td>
<td>1</td>
<td></td>
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</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): %  
Other Hydrophytic Vegetation Indicators:  
Criteria Met? YES ☐ NO ☒ Comments:  

---

**SOILS**

<table>
<thead>
<tr>
<th>Map Unit Name:</th>
<th>44A Conifer silty clay loam</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Hydric Soils List?</td>
<td>Y ☐ N ☒</td>
</tr>
<tr>
<td>Has hydric inclusions?</td>
<td>Y ☐ N ☒</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations</th>
<th>Redox Depletions</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-8'</td>
<td>7.5YR 4/4</td>
<td>pinheads</td>
<td>none</td>
</tr>
</tbody>
</table>

Depth at 6' refusal at 8'  

Hydric Soil Indicators:  
☐ Histosol  
☐ Histoid Epipedon  
☐ Sulfidic Odor  
☐ Reducing Conditions (tests positive)  
☐ Gleyed or low chroma colors  
☐ Redox features within 10" (e.g., concentrations)  
☐ Concretions/Nodules (within 3"; > 2mm)  
☐ High organic content in surface (in Sandy Soils)  
☐ Organic staining (in Sandy Soils)  
☐ Organic pan (in Sandy Soils)  
☐ Listed on Hydric Soils List (and soil profile matches)  
☐ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)  
☐ Supplemental indicator (e.g., NRCS field indicator):  

Criteria Met? YES ☐ NO ☒ Comments:  

---

**HYDROLOGY**

Recorded Data:  
☐ Recorded Data Available  
☐ Aerial Photos  
☐ Stream gauge  
☐ Other  
☐ No Recorded Data Available  

Field Data:  
Depth of Inundation: 9"  
Depth to Saturation: N/A  
Depth to free water: N/A  

Primary Hydrology Indicators:  
☐ Inundated  
☐ Saturated in upper 12 inches  
☐ Water Marks  
☐ Drift Lines  
☐ Sediment Deposits  
☐ Drainage Patterns  
☐ Oxidized Root Channels (upper 12")  
☐ Water-stained Leaves  
☐ Local Soil Survey Data  
☐ FAC Neutral Test  
☐ Other:  

Criteria Met? YES ☐ NO ☒ Comments:  

---

**DETERMINATION**

WETLAND? YES ☐ NO ☒ Comments: 
**DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method**

**County:** Douglas  
**City:** Sutherlin  
**Date:** 10/May/2007  
**Plant Community:** Open Meadow  
**Plot location:** Just south of plot SP24 in lowland wet area  
**Recent Weather:** Mean temp 66°-deorees, partly cloudy, no precipitation. 0.74" month to date precipitation  
**Do normal environ. conditions exist?** Y  
**Has Vegetation □ Soil □ Hydrology □ been significantly disturbed?** Explain: _

---

### VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Total Plot Cover: _%</th>
<th>50%: _%</th>
<th>20%: _%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Status/ Raw % Cover/ Rel % Cover</td>
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<tr>
<td>1.</td>
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<td>3.</td>
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<tr>
<td>Sapling/Shrub Stratum</td>
<td>Total Plot Cover: _% 50%: _% 20%: _%</td>
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<td></td>
<td>Status/ Raw % Cover/ Rel % Cover</td>
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</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 100%

### SOILS

**Map Unit Name:** 44A Conner silty clay loam  
**Drainage Class:** poorly drained  
**Depth Range** of Horizon | Matrix | Redox Concentrations' | Redox Depilations' | Texture |
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10-12&quot;</td>
<td>10YR 2/1</td>
<td>None</td>
<td>None</td>
<td>Silly Clay Loam</td>
</tr>
<tr>
<td>12-16&quot;</td>
<td>10YR 3/2</td>
<td>Low (5-10%)</td>
<td>10YR 5/8 Concretions in Matrix</td>
<td>None</td>
</tr>
</tbody>
</table>

**Hydric Soil Indicators:**  
- Histosol  
- Histic Epiopedon  
- Sulfide Odor  
- Reducing Conditions (tests positive)  
- Glyed or low chroma colors  
- Redox features within 10" (e.g., concentrations)  

**Criteria Met?** YES □ NO □  
**Comments:**

---

### HYDROLOGY

**Recorded Data**  
- Recorded Data Available  
- Aerial Photos  
- Stream gauge  
- Other  
- No Recorded Data Available

**Field Data**  
- Depth of inundation 0"  
- Depth to Saturation: N/A  
- Depth to free water: N/A

**Primary Hydrology Indicators:**  
- Inundated  
- Saturated in upper 12 inches  
- Water Marks  
- Drill Lines  
- Sediment Deposits  
- Drainage Patterns

**Secondary Hydrology Indicators (2 or more required):**  
- Oxidized Root Channels (upper 12")  
- Water-stained Leaves  
- Local Soil Survey Data  
- FAC-Neutral Test  
- Other: _

**Criteria Met?** YES □ NO □  
**Comments:** Drainage patterns visible from surface

---

### DETERMINATION

**WETLAND?** YES □ NO □  
**Comments:**
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin  Date: 10/May/2007  File #: 0349
Project/Contact: Sutherlin Parks/Satre Associates, P.C.  Del. by: Brian Meiering/Susie Holmes
Plot #: 5P26

Plot Location: Southern edge of primary contiguous wetland

Recent Weather: Mean temp 66-degrees, partly cloudy, no precipitation. 0.74" month to date precipitation

Do normal environmental conditions exist? Y [ ] N [ ]
If N [ ], explain: Site is a mud pit with recent vehicle ruts

Has Vegetation, Soil, Hydrology been significantly disturbed?
Explain: Vegetation disturbed by vehicles, upland trace species only on mounds created by tire ruts

Criteria Met? YES [ ] NO [ ]
Comments: Vegetation disturbed by vehicles, upland trace species only on mounds created by tire ruts

VEGETATION

Tree Stratum

<table>
<thead>
<tr>
<th>Status/Raw % Cover/Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

Sapling/Shrub Stratum

<table>
<thead>
<tr>
<th>Status/Raw % Cover/Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC): 100%

Other Hydrophytic Vegetation Indicators: ____________

Criteria Met? YES [ ] NO [ ]
Comments: Vegetation disturbed by vehicles, upland trace species only on mounds created by tire ruts

SOILS

Map Unit Name: 44A Conser silty clay loam  Drainage Class: poorly drained

On Hydric Soils List? Y [ ] N [ ]
Has hydric inclusions? Y [ ] N [ ]

Depth Range of Horizon

<table>
<thead>
<tr>
<th>Matrix Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6&quot; 10 yr 3/2</td>
<td>10 yr 7/8 C/F/D living roots</td>
<td>SCL</td>
</tr>
<tr>
<td>6-16&quot; 2.5 y 2.5/1</td>
<td>10 y 2.5/1 C/F/D pores</td>
<td>SCL</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- Histosol
- Histic Epipedon
- Sulfidic Odor
- Reducing Conditions (tests positive)
- Grayed or low chroma colors
- Redox features within 10" (e.g., concentrations)
- Concretions/Nodules (w/lin 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator): ____________

Criteria Met? YES [ ] NO [ ]
Comments: ____________

HYDROLOGY

Recorded Data
- Recorded Data Available
- Aerial Photos
- Stream gauge
- Other
- No Recorded Data Available

Field Data
Depth of inundation: None
Depth to Saturation: None
Depth to free water: None

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water Marks
- Drift Lines
- Sediment Deposits
- Drainage Anomalies

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12")
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other: ____________

Criteria Met? YES [ ] NO [ ]
Comments: Hydrology increased in duration due to atypical situation. (vehicle ruts)

DETERMINATION

WETLAND? YES [ ] NO [ ]
Comments: Internal depression localizes (BPJ) standing water further into the growing season. Plot was taken to establish wetland boundary on the south side. Soils are disturbed but still maintain a hydric profile that matches soil maps.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas
City: Sutherlin
Project/Contact: Sutherlin Parks/ State Associates, P.C.
Plant Community: Open Meadow
Plot location: Just south, or upland, of plot SP28 outside southern boundary of wetland area
Recent Weather: Mean temp 56-degrees, partly cloudy, no precipitation, 0.74" month to date precipitation

Do normal environ, conditions exist? Y N Yes If No, explain:
Has Vegetation(?) Soil (?) Hydrology (?) been significantly disturbed?
Explain: Fill for rail line/pen-sall

===================================================================================================--==--=-=-=-=-=-=-=-=-=-
VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Festuca arundinacea*</td>
<td>FAC: 90 60</td>
</tr>
<tr>
<td>2. Vicia tetrasperma*</td>
<td>FACU: 30 20</td>
</tr>
<tr>
<td>3. Trifolium repens</td>
<td>FACU: 6 4</td>
</tr>
<tr>
<td>4. Anthoxanthum odoratum</td>
<td>FACU: 5 4</td>
</tr>
<tr>
<td>5. Medicago polymorpha</td>
<td>FACU: 3 2</td>
</tr>
<tr>
<td>6. Rumex crispus</td>
<td>FACU: 1 1</td>
</tr>
<tr>
<td>7. Dactylis glomerata</td>
<td>FACU: 1 1</td>
</tr>
</tbody>
</table>

FACU = Facultative
FAC = Facultative wetland
FACW = Facultative wetland
FAC- = Facultative upland

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 0%
Other Hydrophytic Vegetation Indicators:
Criteria Met? YES  NO  Comments: Highly a typical veg, due to fill material sub straight.

===================================================================================================--==--=-=-=-=-=-=-=-=-=-
SOILS

Map Unit Name: 44A Conifer silty clay loam
Drainage Class: poorly drained

On Hydric Soils List? Y N  No
Has hydric inclusions? Y N  No

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>abunnd/site/contrast/color/location (matrix or pores/peds)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:

- [ ] Concretions/Nodules (with "N") > 2mm
- [ ] High organic content in surface (in Sandy Soils)
- [ ] Organic streaking (in Sandy Soils)
- [ ] Organic pan (in Sandy Soils)
- [ ] Listed on Hydric Soils List (and soil profile matches)
- [ ] Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- [ ] Supplemental indicator (e.g., NRCS field indicator):

Criteria Met? YES  NO  Comments: Atypical fill, not used to make determination.

===================================================================================================--==--=-=-=-=-=-=-=-=-=-
HYDROLOGY

Recorded Data:  YES  NO  Comments:...

<table>
<thead>
<tr>
<th>Field Data</th>
<th>Depth of inundation:</th>
<th>Depth to Saturation:</th>
<th>Depth to free water:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Primary Hydrology Indicators:

- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water Mat
- [ ] Drift Lines
- [ ] Root Mat
- [ ] Drainage Patterns

Secondary Hydrology Indicators (2 or more required):

- [ ] Oxidized Root Channels (upper 12")
- [ ] Water-stained Leaves
- [ ] Local Soil Survey Data
- [ ] FAC-Neutral Test
- [ ] Other:

Criteria Met? YES  NO  Comments:

===================================================================================================--==--=-=-=-=-=-=-=-=-=-
DETERMINATION

WETLAND? YES  NO  Comments: Area is filled recently along rail line fill. May need to monitor hydrology for directly adjacent hydrology to finalize determination (if necessary). Fill creates upland environment that may have recently been partially wetland.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas
City: Sutherlin
Project/Contact: Sutherlin Parks/ Parks Associates, P.C.
Plant Community: Perimeter drainage ditch, disturbed road bed
Plot location: Just north, or inland, of plot SP29 outside of ditch

Do normal environ. conditions exist? Y ☑ N ☐
Has Vegetation Soil Hydrology been significantly disturbed?
Explain: Entire plot is within road bed of historic rail line/non-soil.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Herb Stratum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status/ Raw % Cover/ Rel % Cover</td>
<td>Status/ Raw % Cover/ Rel % Cover</td>
</tr>
<tr>
<td>1.</td>
<td>1. Festuca arundinacea*</td>
</tr>
<tr>
<td>2.</td>
<td>2. Medicago polymorpha*</td>
</tr>
<tr>
<td>3.</td>
<td>3. Vicia tetrasperma*</td>
</tr>
<tr>
<td>4.</td>
<td>4. Festuca rubra</td>
</tr>
<tr>
<td>5.</td>
<td>5. Trifolium repens</td>
</tr>
<tr>
<td>6.</td>
<td>6. Poa annua</td>
</tr>
<tr>
<td>7.</td>
<td>7. Avena ct. barbata</td>
</tr>
<tr>
<td>8.</td>
<td>8. Hypochaeris radicata</td>
</tr>
</tbody>
</table>

VEGETATION

<table>
<thead>
<tr>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
</tr>
<tr>
<td>6.</td>
</tr>
<tr>
<td>7.</td>
</tr>
<tr>
<td>8.</td>
</tr>
</tbody>
</table>

SOILS

Map Unit Name: 64A Consist alluvial clay loam
Drainage Class: poorly drained

SOILS

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations</th>
<th>Redox Depletions</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road bed fill</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SOILS

<table>
<thead>
<tr>
<th>Depth to Saturation</th>
<th>Depth to free water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SOILS

<table>
<thead>
<tr>
<th>Hydric Soil Indicators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Histosol</td>
</tr>
<tr>
<td>□ Histic Epipedon</td>
</tr>
<tr>
<td>□ Sulphidic Odor</td>
</tr>
<tr>
<td>□ Reducing Conditions (tests positive)</td>
</tr>
<tr>
<td>□ Oily or low chroma colors</td>
</tr>
<tr>
<td>□ Redox features within 10&quot; (e.g., concentrations)</td>
</tr>
</tbody>
</table>

SOILS

<table>
<thead>
<tr>
<th>Criteria Met?</th>
<th>YES ☑ NO ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comments: non-soil</td>
<td></td>
</tr>
</tbody>
</table>

HYDROLOGY

Recorded Data
☑ Recorded Data Available ☐ Aerial Photos ☐ Stream gauge ☐ Other ☐ No Recorded Data Available

Field Data
Depth of Inundation: ______
Depth to Saturation: ______
Depth to free water: ______

Hydrology Indicators:
☑ Inundated
☑ Saturated in upper 12 inches
☑ Water Marks
☑ Drain Lines
☑ Sediment Deposits
☑ Drainage Patterns

Secondary Hydrology Indicators (2 or more required): ☐ Oxidized Root Channels (upper 12")
☐ Water-stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other: ______

Determination

WETLAND? YES ☑ NO ☐ Comments: Fill from rail line creates obvious ordinary high water line.

DETERMINATION

DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.
Plant Community: Perimeter drainage ditch
Plot location: Wilkow ditch along southern boundary, just south of SP29

Recent Weather: Mean temp 66-degrees. partly cloudy, no precipitation. 0.74" month to date precipitation
Do normal envir. conditions exist? Y √ N □ If No, explain: __

Has vegetation ☐ Soil ☐ Hydrology ☐ been significantly disturbed?
Explain: __

File #: 0849  Del: by: Brian Meierino/ Susie Holmes
Plot #: SP29

---========================================---========================================---

VEGETATION

Tree Stratum
Total Plot Cover: %
1. Fraxinus taliolia* FACW 10 109
2.
3.

Shrub Stratum
Total Plot Cover: %
1. Crataegus monogyna* FACU 20 57
2. Cytisus scoparius FACU 5 15
3. Rubus armeniacus FACU 5 15
4. Prunus sp 3 9
5.

Total Plot Cover: %
1. Lemna minor* OBL 28 37
2. Juncus effusus* FACW 15 22
3. Mentha pulegium OBL 10 15
4. Gentiana pratensis FACU 10 15
5. Carex deweyana OBL 5 7

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 75%

SOILS

Map Unit Name: 44A Conifer silty clay loam
Drainage Class: poorly drained

On Hydric Soils List? Y ☑ N □ Comments: __
Has hydric inclusions? Y ☑ N □

Depth Range of Horizon
Matrix Color
Hydric Soil Indicators:

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix</th>
<th>Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-7&quot;</td>
<td>2.5Y 4/1</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Silty Clay</td>
</tr>
</tbody>
</table>

refusal at 7" __

Criterias Met? YES ☑ NO □ Comments: __

HYDROLOGY

Recorded Data ☑ Recorded Data Available ☐ Aerial Photos ☐ Stream gauge ☐ Other ☐ No Recorded Data Available

Field Data

Primary Hydrology Indicators:

<table>
<thead>
<tr>
<th>Field Data</th>
<th>Depth of inundation: 2&quot;</th>
<th>Depth to Saturation: N/A</th>
<th>Depth to free water: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Secondary Hydrology Indicators (2 or more required):

<table>
<thead>
<tr>
<th>Secondary Hydrology Indicators</th>
<th>Depth to inundated: 2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidized Root Channels (upper 12&quot;)</td>
<td>Water-stained Leaves</td>
</tr>
<tr>
<td>Local Soil Survey Data</td>
<td>FAC-Neutral Test</td>
</tr>
<tr>
<td>Other: ___________________</td>
<td>Other: __________</td>
</tr>
</tbody>
</table>

Criterias Met? YES ☑ NO □ Comments: __

DETERMINATION

WETLAND? YES ☑ NO □ Comments: __
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  
City: Sutherlin  
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.  
Plant Community: Open Meadow  
Plot location: Eastern side of Ash Woodland within eastern side of site  
Recent Weather: Mean temp 66-degrees, partly cloudy, no precipitation, 0.74" month to date precipitation  
Do normal environ. conditions exist? Y  
If No, explain:  
Has Vegetation ☐ Soil ☐ Hydrology ☐ been significantly disturbed?  
Explain: Toe of a fill pile extends to this boundary  

---

**VEGETATION**

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Fraxinus latifolia *</td>
<td>FACW 40 100</td>
<td>1. Camassia quamash *</td>
<td>FACW 15 30</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>2. Mentha pulegium *</td>
<td>OBL 16 20</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>3. Juncus Pulicaris *</td>
<td>FACW 20 40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Festuca arundinacea</td>
<td>FAC- 5 10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5. Unknown Grass</td>
<td>0 0</td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 80%  
Other Hydrophytic Vegetation Indicators:  
Criteria Met? YES ☑ NO ☐  Comments: Adjacent plot in Ash Woodland more typical of this habitat composition.

---

**SOILS**

Map Unit Name: 44A Conifer silty clay loam  
Drainage Class: poorly drained  
On Hydric Soils List? Y ☑ N ☐  Has hydric inclusions? Y ☑ N ☐  

<table>
<thead>
<tr>
<th>Depth Range</th>
<th>Matrix Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5&quot;</td>
<td>2.5 y 3/1</td>
<td>F/F/F/matrix</td>
<td></td>
<td>SCL</td>
</tr>
<tr>
<td>5-16&quot;</td>
<td>10 y 3/1</td>
<td>5 yr 4/6 C/F/Direct channels</td>
<td></td>
<td>SCL</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:  
☐ Histosol  
☐ Sulfidic Odor  
☐ Reducing Conditions (tests positive)  
☐ Glazed or low chroma colors  
☐ Redox features within 10' (e.g., concentrations)  

Criteria Met? YES ☑ NO ☐  Comments:  

---

**HYDROLOGY**

Recorded Data  
☑ Recorded Data Available  ☐ Aerial Photos  ☐ Stream gauge  ☐ Other  ☐ No Recorded Data Available  
Field Data  
Depth of Inundation: None  
Depth to Saturation: None  
Depth to free water: None  
Primary Hydrology Indicators:  
☐ Inundated  
☐ Saturated in upper 12 inches  
☐ Water Marks  
☐ Drift Lines  
☐ Sediment Deposits  
☐ Drainage Patterns

Secondary Hydrology Indicators (2 or more required):  
☐ Oxidized Root Channels (upper 12")  
☐ Water-stained Leaves  
☐ Local Soil Survey Data  
☐ FAC-Neutral Test  ☐ Other:  

Criteria Met? YES ☑ NO ☐  Comments:  

---

**DETERMINATION**

WETLAND? YES ☑ NO ☐  Comments: Plot taken to describe obvious fill most likely pre-1970's that extends into Ash Woodland when paired with SP 31.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Services Associates, P.C.
Plant Community: Disturbed upland
Plot location: Eastern side of upland area within Ash Woodland near eastern side of site
Recent Weather: Mean temp 66-degrees, partly cloudy, no precipitation, 0.74" month to date precipitation

Do normal environmental conditions exist? Y ☑ N ☐ If No, explain:

Has Vegetation ☑ Soil ☑ Hydrology ☑ been significantly disturbed?
Explain: Obvious Fill

---

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td>1. Festuca arundinacea*</td>
<td>FAC- 10 10</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>2. Rubus armeniacus*</td>
<td>FACU 15 15</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>3. Unknown Grass*</td>
<td>72 72</td>
</tr>
<tr>
<td>Sapling/Shrub Stratum</td>
<td>Status/ Raw % Cover/ Rel % Cover</td>
<td>4. bare ground</td>
<td>72 72</td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td>5.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>6.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>7.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>8.</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td>9.</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td></td>
<td>10.</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td></td>
<td>11.</td>
<td></td>
</tr>
</tbody>
</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 0%

Other Hydrophytic Vegetation Indicators:

Criteria Met? YES ☑ NO ☐ Comments: Characteristics entire fill slope

---

SOILS

Map Unit Name: 44A Conifer silty clay loam
Drainage Class: poorly drained

On Hydric Soils List? Y ☑ N ☐ Has hydric inclusions? Y ☑ N ☐

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations*</th>
<th>Redox Depletions*</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-8&quot;</td>
<td>2.5 YR 4/3</td>
<td></td>
<td></td>
<td>SL</td>
</tr>
<tr>
<td>&gt;8&quot;</td>
<td>Refusal</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- Histosol
- Histic Epipedon
- Siltathic Color
- Reducing Conditions (tests positive)
- Gleyed or low chroma colors
- Redox features within 10" (e.g., concentrations)
- Concretions/Nodules (within 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental Indicator (e.g., NRCS field indicator):

Criteria Met? YES ☑ NO ☐ Comments:___

---

HYDROLOGY

Recorded Data
☑ Recorded Data Available ☐ Aerial Photos ☐ Stream gauge ☐ Other ☐ No Recorded Data Available

Field Data
Depth of inundation: None
Depth to Saturation: None
Depth to free water: None

Primary Hydrology Indicators:
☑ Unirrigated
☑ Saturated in upper 12 inches
☑ Water Marks
☑ Drift Lines
☑ Sediment Depicts
☑ Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
☐ Oxidized Root Channels (upper 12")
☐ Water-stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other: ___

Criteria Met? YES ☑ NO ☐ Comments: Fill pile extends above hydrology within the site

---

DETERMINATION

WETLAND? YES ☑ NO ☐ Comments: Plot taken to describe obvious fill pre-1985 that extends into Ash Woodland, characterized by Armenian blackberry and English Hawthorn. When paired with SP 30

Date: 10/20/2007  Det. by: Brian Melzer/ Susie Holmes
File #: 0449  Plot #: 0431
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  
City: Sutherlin  
Date: 10/May/2007  
File #: 0249  
Plot #: SPS2

Plant Community: Open Meadow

Plot location: Within ditch along east boundary, just east of SP33

Recent Weather: Mean temp 55-degrees, partly cloudy, no precipitation, 0.74" month to date precipitation

Do normal environ. conditions exist? Y  
If No, explain: __

Has vegetation ( ) Soil ( ) Hydrology ( ) been significantly disturbed?  
Explain: __

Vegetation:

Tree Stratum  
Status/ Raw % Cover/ Rel % Cover
1. Fraxinus latifolia *  
   FACW  40  80
2. Ulmus americana *  
   FACU+ 10  20
3. ____________
4. ____________
5. ____________

Herb Stratum  
Status/ Raw % Cover/ Rel % Cover
1. Juncus patens *  
   FACW  80  89
2. Arnottia baetica  
   FAC 10  11
3. Galium aparine  
   FACU  1  1
4. Viola sativa var. sativa  
   FACU  1  1
5. ____________
6. ____________
7. ____________
8. ____________
9. ____________
10. ____________
11. ____________

Sapling/Shrub Stratum  
Status/ Raw % Cover/ Rel % Cover
1. Rubus armeniacus *  
   FACU  40  80
2. Prunus caroliniana 'Intermediate' *  
   FACU  10  20
3. ____________
4. ____________
5. ____________

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 80%

Other Hydrophylic Vegetation Indicators: ____________

Criteria Met? YES  
Comments: This plot would not include most of the tree + shrub species if shaped along bottom of channel, plot dominated by FAC and reediera sax.

SOILS

Map Unit Name: 44A Consor silty clay loam  
Drainage Class: poorly drained

On Hydric Soils List? Y  
Has hydric inclusions? Y

Depth Range of Horizon  
Matrix Color Redox Concentrations*  
Redox Depletions*  
Texture
0-4"  
10yr 3/2  
SCL

4-8"  
2.6yr 3/1  
10yr 5/8 C/M/P  
SC

8-20"  
10y 4/1  
10yr 5/8 C/F/D  
(root channels) C

Hydric Soil Indicators:
- Histosol
- Histic Epipedon
- Sulfidic Odor
- No reducing conditions (tests positive)
- Glazed or low chroma colors
- Redox features within 10" (e.g., concentrations)
- Concretions/Nodules (w/ 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pea (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator): ____________

Criteria Met? YES  
Comments: Depletions along root channels usu 10yr 4/1.

HYDROLOGY

Recorded Data  
Recorded Data Available  
Aerial Photos  
Stream gauge  
Other  
No Recorded Data Available

Field Data  
Depth of inundation: None  
Depth to Saturation: None  
Depth to free water: None

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water Marks
- Oxidized Root Channels (upper 12"
- Local Soil Survey Data
- FAC-Neutral Test
- Other: __________________

Criteria Met? YES  
Comments: ____________

DETERMINATION

WETLAND? YES  
Comments: Ditch appears to occur with road around 1960.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Satte Associates, P.C.
Plant Community: Open Meadow
Plot location: Just west or upland of ditch and plot SP32

Recent Weather: Mean temp 60-degrees, partly cloudy, no precipitation. 0.74" month to date precipitation

Do normal erosion conditions exist? Y [ ] N [x] If No, explain:

Has Vegetation & Soil Hydrology been significantly disturbed? Y [ ] N [x] If Yes, explain:

Explain: Old road bed, probably to access orchard past of wetland created pre-1927.

VEGETATION

<table>
<thead>
<tr>
<th>Tree Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
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<table>
<thead>
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<th>Sclerophyll/Shrub Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
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</table>

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 0%

Other Hydrophytic Vegetation Indicators:
Criteria Met? YES [x] NO [ ] Comments: 

SOILS

Map Unit Name: 44A Conifer silty clay loam

On Hydric Soils List? Y [x] N [ ] Has hydric inclusions? Y [ ] N [ ]

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations/ Redox Depletions/ Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6&quot;</td>
<td>10yr 4/3</td>
<td>refusal @ 8&quot;</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:
- Histosol
- Histosol Epipedon
- Aquic or Aquic Dullfii Color
- Reducing Conditions (tests positive)
- Clayey or clayey chroma colors
- Redox features within 10" (e.g., concentrations)

- Concretion/Nodule (within 3"; > 2mm)
- High organic content in surface (in Sandy Soils)
- Organic streaking (in Sandy Soils)
- Organic pan (in Sandy Soils)
- Listed on Hydric Soils List (and soil profile matches)
- Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- Supplemental indicator (e.g., NRCS field indicator): 

Criteria Met? YES [x] NO [ ] Comments: Historic road bed (see below)

HYDROLOGY

Recorded Data:
- Yes Recorded Data Available
- No Recorded Data Available

Field Data:
- Depth of inundation: None
- Depth to Saturation: None
- Depth to Free Water: None

Primary Hydrology Indicators:
- Inundated
- Saturated in upper 12 inches
- Water Stains
- Drift Lines
- Sediment Deposition
- Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- Oxidized Root Channels (upper 12"
- Water-stained Leaves
- Local Soil Survey Data
- FAC-Neutral Test
- Other:

Criteria Met? YES [x] NO [ ] Comments: 

DETERMINATION

WETLAND? YES [x] NO [ ] Comments: Ditch appears on photos around 1960, edge of old roadbed highly disturbed with occasional remnants of red ore from fill.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin  Date: 10/May/2007  File #: 0346  Del. by: Brian Metterling/ Susie Holmes
Project/Contact: Sutherlin Parks/ Satre Associates, P.C.  Plot #: SP 34
Plant Community: Riosarian edge of perimeter drainage ditch
Plot location: Just south of waters edge along the northern edge of the property, see map
Recent Weather: Mean temp 66-degrees, partly cloudy, no precipitation, 0.74” month to date precipitation
Do normal environ. conditions exist? Y N  No, explain:
Has Vegetation □ Soil □ Hydrology □ been significantly disturbed? Explain: A typical soils impacted by

VEGETATION

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<th>Status/ Raw % Cover/ Rel % Cover</th>
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<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
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<th>Herb Stratum</th>
<th>Status/ Raw % Cover/ Rel % Cover</th>
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Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 62%
Other Hydrophytic Vegetation Indicators:
Criteria Met? YES □ NO □ Comments: Plot was not shaped properly, therefore it captured many vegetation aspects ups slope.

SOILS

<table>
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<tr>
<th>Depth Range of Horizon</th>
<th>Matrix Color</th>
<th>Redox Concentrations' * (abund./size/contrast/color/location (matrix or pores/peds))</th>
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<tbody>
<tr>
<td>0-7”</td>
<td>10yr 3/1</td>
<td>SCL</td>
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</table>

Hydric Soil Indicators:
- □ Histosol
- □ Histic Epipedon
- □ Sulfidic Odor
- □ Reducing Conditions (lasta positive)
- □ Gleyed or low chroma colors
- □ Redox features within 10” (e.g., concentrations)
- □ Concretions/Nodules (w/in 3”; > 2mm)
- □ High organic content in surface (in Sandy Soils)
- □ Organic streaking (in Sandy Soils)
- □ Organic pan (in Sandy Soils)
- □ Listed on Hydric Soils List (and soil profile matches)
- □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)
- □ Supplemental indicator (e.g., NRCS field indicator):

Criteria Met? YES □ NO □ Comments: Refusal @ 7” due to rock, probably associated with Histric dynamics.

HYDROLOGY

Recorded Data
- □ Recorded Data Available  □ Aerial Photos  □ Stream gauge  □ Other  □ No Recorded Data Available

Field Data
- Depth of inundation: 0
- Depth to Saturation: None
- Depth to free water: None

Primary Hydrology Indicators:
- □ Inundated
- □ Saturated in upper 12 inches
- □ Water Marks
- □ Drain Lines
- □ Sediment Depositions
- □ Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
- □ Oxidized Root Channels (upper 12”)
- □ Water-stained Leaves
- □ Local Soil Survey Data
- □ FAC-Neutral Test
- □ Other: sulfur odor

Criteria Met? YES □ NO □ Comments: Sulfuric odor when soil pit examined.

DETERMINATION

WETLAND? YES □ NO □ Comments: Plot taken to describe well defined boundary of Sutherlin Creek. Wetland boundary will defined by elevation gradient. Average of 9 feet emergent vegetation on each side of primary channel flow, completely within ordinary high water. Paired with SP 36.
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin  Date: 10 May 2007  File #: 0349
Project/Contact: Sutherlin Parks/ Sater Associates, P.C.
Plant Community: Open meadow upland of riparian area
Plot location: Just south of upland of plot 34

Recent Weather: Mean temp 66°, partly cloudy, no precipitation, 0.74" month to date precipitation

Do normal environment conditions exist? Y N If No, explain: 

Has Vegetation Soil Hydrology been significantly disturbed? Explain:

Historic, 1960's dike location dominated by gravel fill + side cast stream material.

VEGETATION

Tree Stratum
1. __________________ Status / Raw % Cover / Rel % Cover
2. __________________
3. __________________

Shrubby / Shrub Stratum
1. __________________ Status / Raw % Cover / Rel % Cover
2. __________________
3. __________________

Herb Stratum
1. Anthoxanthum odoratum
2. Festuca arundinacea
3. Hypochoeris radicata
4. Centaurea pratensis
5. Bromus sitchensis
6. Daucus carota
7. Crassulamum leucanthemum
8. __________________
9. __________________
10. __________________
11. __________________

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): ___%
Other Hydrophytic Vegetation Indicators:
Criteria Met? YES ☑ NO ☐ Comments: ________________________________

SOILS

Map Unit Name: 44A Conser, silty clay loam
On Hydric Soils List? Y N ☐ Has hydric inclusions? Y ☐ N ☐

Redox Concentrations Video
Redox Depletions Video
Texture

Refusal @ surface

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odo
☐ Reducing Conditions (tests positive)
☐ Gleyed or low chroma colors
☐ Redox features within 10" (e.g., concentrations)

Criteria Met? YES ☑ NO ☐ Comments: ________________________________

HYDROLOGY

Recorded Data
☐ Recorded Data Available  ☐ Aerial Photos  ☐ Stream gauge  ☐ Other  ☐ No Recorded Data Available

Field Data
 Depth of inundation: None
 Depth to Saturation: None
 Depth to free water: None

Primary Hydrology Indicators:
☐ Inundated
☐ Saturated in upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Depots
☐ Drainage Patterns

Secondary Hydrology Indicators (2 or more required):
☐ Oxidized Soil Channels (upper 12")
☐ Water-stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other: ________________________________

Criteria Met? YES ☑ NO ☐ Comments: ________________________________

DETERMINATION

WETLAND?: YES ☑ NO ☐ Comments: ________________________________
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  City: Sutherlin
Project/Contact: Sutherlin Parks/ Same Associates, P.C.
Plant Community: Open Meadow
Plot location: Plot is east of rodeo area and just west/upland of dirt road

Recent Weather: Mean temp 66-degrees, partly cloudy, no precipitation. 0.74” month to date precipitation

Do normal environ conditions exist? Y N [If No, explain:]

Has Vegetation & Soil & Hydrology been significantly disturbed? Y N [If Yes, explain: Veg. and hydrology both impacted by rodeo grounds. Rodeo depression diverts some hydrology off of the disturbed plot.]

VEGETATION

Tree Stratum

<table>
<thead>
<tr>
<th>Status/ Raw % Cover</th>
<th>Herb Stratum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1. Festuca arundinacea*</td>
</tr>
<tr>
<td>2.</td>
<td>2. Alopecurus pratensis*</td>
</tr>
<tr>
<td>3.</td>
<td>3. Trifolium repens</td>
</tr>
<tr>
<td>4.</td>
<td>4. Medicago polymorpha</td>
</tr>
<tr>
<td>5.</td>
<td>5. Agrostis tenax</td>
</tr>
<tr>
<td>6.</td>
<td>6. Bromus cf. mollis</td>
</tr>
<tr>
<td>7.</td>
<td>7. Hordeum jubatum</td>
</tr>
<tr>
<td>8.</td>
<td>8. Lolium perenne</td>
</tr>
<tr>
<td>9.</td>
<td>9. Vicia cf. disperma</td>
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<td>10.</td>
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<td>11.</td>
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</tbody>
</table>

SOILS

Map Unit Name: 44A Conser silty clay loam

SOILS

<table>
<thead>
<tr>
<th>Depth Range of Horizon</th>
<th>Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 8</td>
<td>SCL</td>
</tr>
<tr>
<td>8 - 16</td>
<td>SCL</td>
</tr>
</tbody>
</table>

Hydric Soil Indicators:

- Histosol
- Histoid Epipedon
- Sulfidic Odor
- Reducing Conditions (tissue positive)
- Gleyed or low chroma colors
- Redox features within 10” (e.g., concentrations)

Criteria Met? YES [If No, explain:]

HYDROLOGY

Field Data

- Depth of inundation: None
- Depth to Saturation: None
- Depth to Free Water: None

Primary Hydrology Indicators:

- Uninundated
- Saturated in upper 12 inches
- Water Marks
- Drift Lines
- Sediment Deposits

Secondary Hydrology Indicators (2 or more required):

- Oxidized Root Channels (upper 12”)
- Water-stained Leaves
- FAC-Neutral Test

Criteria Met? YES [If No, explain: Hydrology not detectable due to slight topographic rise from SP 23.]

DETERMINATION

WETLAND? YES [If No, explain: Plot establishes a typical wetlands adjacent to rodeo. Paried with SP 23. Hydrology will need to be monitored if client wishes to provide evidence that wetlands aren’t in this area.]
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM—Full Method

County: Douglas  
City: Sutherlin  
Project/Contact: Sutherlin Parks/ Sutre Associates, P.C.  
Plant Community: Open Meadow  
Plot location: Plot is east of rodeo area and just west upland of dirt road  
Recent Weather: Mean temps 66-degrees, partly cloudy, no precipitation. 0.74" month to date precipitation  

Do normal environmental conditions exist? Y [□] N [□]  
Has vegetation been disturbed? Y [□] N [□]  
Explain: Area affected by vehicular access, Barren of vegetation.  

VEGETATION

Tree Stratum  
1.  
2.  
3.  

Sapling/Shrub Stratum  
1.  
2.  
3.  
4.  
5.  

Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):  
Other Hydrophytic Vegetation Indicators:  
Criteria Met? YES [□] NO [□]  
Comments:  

SOILS

Map Unit Name: 44A Consol Clay loam  
Drainage Class: poorly  

On Hydric Soils List? Y [□] N [□]  
Has hydric inclusions? Y [□] N [□]  

Depth Range of Horizon Matrix Color Redox Concentrations' * Color/contrast/color/location (matrix or pores/peds) Redox Depletions' Texture  
0 - 8 10yr 3/2 7.5YR 5/B C/MID SCL  
8 - 16 10yr 3/2 7.5YR 5/B C/F/D CL  

Hydric Soil Indicators:  
Concretions/Nodules (within 3" > 2mm)  
High organic content in surface (in Sandy Soils)  
Organic streaking (in Sandy Soils)  
Organic pan (in Sandy Soils)  
Listed on Hydric Soils List (and soil profile matches)  
Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)  
Supplemental indicator (e.g., NRCS field indicator):  
Criteria Met? YES [□] NO [□]  
Comments: Soils disturbed within last year but hydric soil characteristics are evident  

HYDROLOGY

Recorded Data  
Recorded Data Available [□] Aerial Photos [□] Stream gauge [□] Other [□] No Recorded Data Available  

Field Data  
Depth of inundation: None  
Depth to Saturation: None  
Depth to free water: None  

Primary Hydrology Indicators:  
Secondary Hydrology Indicators (2 or more required):  
Constituted Root Channels (upper 12")  
Water-stained Leaves  
Local Soil Survey Data  
FAC-Neutral Test  
Other:  
Criteria Met? YES [□] NO [□]  
Comments:  

DETERMINATION

WETLAND? YES [□] NO [□]  
Comments: Plot establishes atypical disturbed conditions within Eastern field. Best professional judgement provides evidence that wetlands are present on-site unless proven otherwise by hydrology monitoring.
Appendix C: Ground Level Color Photographs

Begin February 6, 2007

PP1: Looking East across Plagiobothrys hirtus protection area

PP2: Looking SE towards SP6 and palustrine forsted ash stand.
PP3: Looking E from just N of SP26

PP4: Looking E from just E of SP27
PP4: Looking W from just E of SP27
PP5: Looking E from near center of field

PP6: Looking E from just SE of SP18
PP6: Looking NE from just SE of SP18

PP7: Looking E from just NE of SP18
PP8: Looking W from just N of SP17

PP8: Looking S from just N of SP17
PP9: Looking S from just just NW of SP20

PP9: Looking ESE from just just NW of SP20 (across SP20)
PP10: Looking W from just W of SP16
PP11: Looking W from SP9
PP12: Looking W along Sutherlin creek from footbridge

End February 6, 2007
PP13: Looking W across SP1 & SP2
PP14: Looking E along ditch (SP3 in foreground)

PP15: Looking E along property line just N of SP3
PP16: Looking NW over SP5 (blue flag)
End March/Begin May 16, 2007 Photos

PP17: Looking E along the bottom of Sutherlin creek from SP34
PP18: Looking S over SP30 (Munsel book) and SP31 (Blue flag above fill)

PP19: Looking E from just S of SP25
PP20: Looking E across SP24 (left center)

PP21: Looking E across SP18 (just right of center)
PP21: Looking NE across SP19

PP22: Looking WNW across SP13 (blue left) and SP14 (blue right)
PP23: Looking SW across SP7 from SP8

PP24: Looking SW across SP12 (foreground) and SP11 (background)
PP25: Looking S across SP21

PP26: Looking E across SP32 from SP33
### 2008 Hydrology Monitoring Data

<table>
<thead>
<tr>
<th>Pit Number</th>
<th>Soil</th>
<th>Initial Yd</th>
<th>Depth of Pit</th>
<th>Soil Notes</th>
<th>Hydrology Indicator</th>
<th>Water Soils Indication</th>
<th>DATE</th>
<th>Surface Water Yd</th>
<th>Depth of Surface Water</th>
<th>Water in Pit Yd</th>
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Sutherlin Festival Grounds Wetland Definition Report
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2008 Hydrology Monitoring Data

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**WETS Station: SUTHERLIN 4 NE, OR8240**

*Observed inches are from Roseburg CUS006 KNFR 051000CT06BG Preliminary Local Climatological Data (WS FORM 1'-6)*

![Image of the page]

**Start of Water Year**

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*Updated 01 Feb 2000*
Start 08 Water Year

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CNUS56 KNSFR
05100184US
PRELIMINARY
LOCAL CLIMATOLOGIC
AL DATA (WS)
POINT: P-0

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Appendix E: Literature Cited
REFERENCES AND LITERATURE CITED


