

APPENDIX C

Wetland Delineation

DRAFT ENVIRONMENTAL ASSESSMENT

Newport Municipal Airport Obstruction Removal



Oregon

Kate Brown, Governor

Department of State Lands

775 Summer Street NE, Suite 100

Salem, OR 97301-1279

(503) 986-5200

FAX (503) 378-4844

www.oregon.gov/dsl

State Land Board

March 16, 2021

Newport Municipal Airport
Attn: Lance Vanderbeck, Airport Director
135 SE 84th Street
South Beach, OR 97366

Kate Brown
Governor

Shemia Fagan
Secretary of State

Re: WD # 2020-0008 **Approved** (Correction)
Report for Newport Municipal Airport Obstruction
Removal Lincoln County; T11S R11W S29 and T11S R11W S32
Includes Multiple Tax Lots (see attached maps)

Tobias Read
State Treasurer

Dear Mr. Vanderbeck:

The concurrence letter dated March 8, 2021, for the wetland delineation report referenced above contained an error. The letter indicated that the seven ditches may be exempt per OAR 141-085-0515(10), but only as a preliminary jurisdictional determination due to lack of access. The letter has been amended to change the preliminary jurisdictional determination of the seven ditches as exempt, to a jurisdictional determination of exemption, as they were accessed in the field.

The Department of State Lands has reviewed the wetland delineation report prepared by Environmental Science Associates for 10 study areas identified on attached figures. Please note that only portions of tax lots are identified in these study areas (see the attached maps). Based upon the information presented in the report, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 5A through 5K of the report. Please replace all copies of the preliminary wetland maps with these final Department approved maps.

Within the 10 study areas, 37 wetlands (Wetland 2-16, 18-21, and 23-30), 10 waterways (Henderson Creek, Moore Creek, and Stream 1 through Stream 8), and 7 ditches (Ditch 1 through Ditch 7) were identified. Twenty-six of the 27 wetlands (Wetland 2-14, 16, 18-21, and 23-30, totaling approximately 7.29 acres) and the 12 waterways are subject to the permit requirements of the state Removal-Fill Law. Normally, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). However, Henderson and Moore Creeks are essential salmonid streams; therefore, fill or removal of any amount of material below their OHWLs or within hydrologically connected wetlands (Wetland 11d, 11e, 21a, 21b, 30a, 30b, 30c, 30d, and 30e) may require a permit.

In addition, Wetland 15 is exempt per OAR 141-085-0515(7c) and is not subject to current state Removal-Fill requirements. The 7 ditches are exempt per OAR 141-085-0515(10). Furthermore, Study Area 6, as indicated on the attached maps, was not investigated in the field; therefore, the determination of upland for this area should be considered a preliminary jurisdictional determination.

This concurrence is for purposes of the state Removal-Fill Law only. We recommend that you attach a copy of this concurrence letter to any subsequent state permit application to speed application review. Federal or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from March 8, 2021 unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

The Department apologizes for any confusion this mistake may have caused and thank you again for having the site evaluated. Please phone me at 503-986-5262 if you have any questions.

Sincerely,



Matt Unitis
Jurisdiction Coordinator

Enclosures

ec: Luke Johnson, Environmental Science Associates
City of Newport Planning Department
Carrie Bond, Corps of Engineers
Oregon Coastal Management Program
Joy Vaughan, ODFW
Carrie Landrum, DSL



Oregon

Kate Brown, Governor

Department of State Lands

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March 8, 2021

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Attn: Lance Vanderbeck, Airport Director
135 SE 84th Street
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Governor

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Report for Newport Municipal Airport Obstruction Removal
Lincoln County; T11S R11W S29 and T11S R11W S32
Includes Multiple Tax Lots (see attached maps)

Shemia Fagan
Secretary of State

Tobias Read
State Treasurer

Dear Mr. Vanderbeck:

The Department of State Lands has reviewed the wetland delineation report prepared by Environmental Science Associates for 10 study areas identified on attached figures. Please note that only portions of tax lots are identified in these study areas (see the attached maps). Based upon the information presented in the report, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 5A through 5K of the report. Please replace all copies of the preliminary wetland maps with these final Department approved maps.

Within the 10 study areas, 37 wetlands (Wetland 2-16, 18-21, and 23-30), 10 waterways (Henderson Creek, Moore Creek, and Stream 1 through Stream 8), and 7 ditches (Ditch 1 through Ditch 7) were identified. Twenty-six of the 27 wetlands (Wetland 2-14, 16, 18-21, and 23-30, totaling approximately 7.29 acres) and the 12 waterways are subject to the permit requirements of the state Removal-Fill Law. Normally, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). However, Henderson and Moore Creeks are essential salmonid streams; therefore, fill or removal of any amount of material below their OHWLs or within hydrologically connected wetlands (Wetland 11d, 11e, 21a, 21b, 30a, 30b, 30c, 30d, and 30e) may require a permit.

In addition, Wetland 15 is exempt per OAR 141-085-0515(7c) and is not subject to current state Removal-Fill requirements. The 7 ditches may be exempt per OAR 141-085-0515(10), but because the ditches are in an area indicated as having no right of entry, their determinations can only be considered preliminary jurisdictional determinations. Furthermore, Study Area 6, as indicated on the attached maps, was not investigated in the field; therefore, the determination of upland for this area should also be considered a preliminary jurisdictional determination.

This concurrence is for purposes of the state Removal-Fill Law only. We recommend that you attach a copy of this concurrence letter to any subsequent state permit application to speed application review. Federal or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

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Thank you for having the site evaluated. If you have any questions, please contact the Jurisdiction Coordinator for Lincoln County, Matt Unitis, at (503) 986-5262.

Sincerely,



Peter Ryan, SPWS
Aquatic Resource Specialist

Enclosures

ec: Luke Johnson, Environmental Science Associates
City of Newport Planning Department
Carrie Bond, Corps of Engineers
Oregon Coastal Management Program
Joy Vaughan, ODFW
Carrie Landrum, DSL

WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at: <https://apps.oregon.gov/DSL/EPS/program?key=4>.

Attach this completed and signed form to the front of an unbound report or include a hard copy with a digital version (single PDF file of the report cover form and report, minimum 300 dpi resolution) and submit to: **Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279**. A single PDF of the completed cover form and report may be e-mailed to: **Wetland_Delineation@dsl.state.or.us**. For submittal of PDF files larger than 10 MB, e-mail DSL instructions on how to access the file from your ftp or other file sharing website.

Contact and Authorization Information	
<input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Owner Name, Firm and Address: Lance Vanderbeck, Airport Director Newport Municipal Airport 135 SE 84th Street South Beach, OR 97366	Business phone # (541) 867-7422 Mobile phone # (optional) E-mail: L.Vanderbeck@NewportOregon.gov
<input type="checkbox"/> Authorized Legal Agent, Name and Address (if different):	Business phone # Mobile phone # (optional) E-mail:
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: <u>Lance Vanderbeck</u> Signature: Date: <u>12-23-2019</u> Special instructions regarding site access: _____	
Project and Site Information	
Project Name: Newport Municipal Airport Obstruction Removal	Latitude: <u>44.579275°</u> Longitude: <u>-124.059759°</u> decimal degree - centroid of site or start & end points of linear project
Proposed Use: Removal of obstructions (trees) from FAA regulated cone of approach to Airport runways.	Tax Map # See attached table. Tax maps and lots organized by study area Tax Lot(s) _____ Tax Map # _____ Tax Lot(s) _____
Project Street Address (or other descriptive location): 135 SE 84th Street	Township 11 S Range 11 S Section 29 QQ Use separate sheet for additional tax and location information
City: Newport/South Beach County: Lincoln	Waterway: Henderson Creek River Mile: <u>NA</u>
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address: Luke Johnson, Wetland Biologist Environmental Science Associates 819 SE Morrison Street, Suite 310 Portland, OR 97214	Phone # (971) 295-5041 Mobile phone # (if applicable) E-mail: ljohnson@esassoc.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:	Date: <u>10/24/2019</u>
Primary Contact for report review and site access is <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Applicant/Owner <input type="checkbox"/> Authorized Agent	
Wetland/Waters Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Study Area size: 521.25 acres Total Wetland Acreage: 7.2800	
Check Applicable Boxes Below	
<input type="checkbox"/> R-F permit application submitted	<input checked="" type="checkbox"/> Fee payment submitted \$ 454 <u>\$466</u>
<input type="checkbox"/> Mitigation bank site	<input type="checkbox"/> Resubmittal of rejected report (\$100)
<input type="checkbox"/> EFSC/ODOE Proj. Mgr: _____	<input type="checkbox"/> Request for Reissuance. See eligibility criteria. (no fee)
<input type="checkbox"/> Wetland restoration/enhancement project (not mitigation)	DSL # _____ Expiration date _____
<input type="checkbox"/> Previous delineation/application on parcel If known, previous DSL # _____	<input type="checkbox"/> LWI shows wetlands or waters on parcel Wetland ID code _____
For Office Use Only	
DSL Reviewer: <u>MU</u> Fee Paid Date: ____ / ____ / ____	DSL WD # <u>2020-0008</u>
Date Delineation Received: <u>1 / 2 / 20</u> Scanned: <input type="checkbox"/> Electronic: <input checked="" type="checkbox"/>	DSL App.# _____

Study Area	Tax Map	OR Tax lot #	Right of Entry
1	11-11-29-00-01402-00	2111.00S11.00W2900-- 000001402	Yes
	11-11-29-00-01401-00	2111.00S11.00W2900-- 000001401	Yes
2	11-11-29-00-01402-00	2111.00S11.00W2900-- 000001402	Yes
	11-11-29-00-01401-00	2111.00S11.00W2900-- 000001401	Yes
	11-11-29-00-00400-00	2111.00S11.00W2900-- 000000400	Yes
	11-11-29-00-00300-00	2111.00S11.00W2900-- 000000300	Yes
	11-11-29-00-01100-00	2111.00S11.00W2900-- 000001100	Yes
3	11-11-20-00-02700-00	2111.00S11.00W2000-- 000002700	Yes
	11-11-21-00-01600-00	2111.00S11.00W2100-- 000001600	Yes
	11-11-28-00-00700-00	2111.00S11.00W2800-- 000000700	Yes
	11-11-29-00-00100-00	2111.00S11.00W2900-- 000000100	Yes
	11-11-29-00-00500-00	2111.00S11.00W2900-- 000000500	Yes
	11-11-29-00-00600-00	2111.00S11.00W2900-- 000000600	Yes
	11-11-29-00-01000-00	2111.00S11.00W2900-- 000001000	Yes
4	11-11-32-00-00200-00	2111.00S11.00W3200-- 000000200	Yes
	11-11-32-00-01602-00	2111.00S11.00W3200-- 000001602	Yes
	11-11-32-00-01601-00	2111.00S11.00W3200-- 000001601	Yes
	11-11-32-CC-0ROAD-00	2111.00S11.00W32CC-- 00000ROAD	Yes
11-11-32-CC-00800-00	2111.00S11.00W32CC-- 000000800	Yes	

Study Area	Tax Map	OR Tax lot #	Right of Entry
4	11-11-32-CC-01601-00	2111.00S11.00W32CC-- 000001601	Yes
	11-11-32-CC-01400-00	2111.00S11.00W32CC-- 000001400	Yes
	11-11-32-CC-01300-00	2111.00S11.00W32CC-- 000001300	Yes
	11-11-32-CC-01201-00	2111.00S11.00W32CC-- 000001201	Yes
	11-11-32-CC-01101-00	2111.00S11.00W32CC-- 000001101	Yes
	12-11-05-00-00800-00	2112.00S11.00W0500-- 000000800	Yes
	12-11-05-00-0ROAD-00	2112.00S11.00W0500-- 00000ROAD	Yes
	12-11-05-00-00803-00	2112.00S11.00W0500-- 000000803	Yes
	12-11-05-00-00801-00	2112.00S11.00W0500-- 000000801	Yes
	12-11-06-00-00600-00	2112.00S11.00W0600-- 000000600	Yes
	12-11-06-00-0ROAD-00	2112.00S11.00W0600-- 00000ROAD	Yes
	12-11-06-00-00300-00	2112.00S11.00W0600-- D00100300	Yes
	12-11-06-00-00200-00	2112.00S11.00W0600-- D00100200	Yes
	12-11-06-00-00100-00	2112.00S11.00W0600-- D00100100	Yes
	11-11-32-00-01604-00	2111.00S11.00W3200-- 000001604	Yes
11-11-32-CC-01200-00	2111.00S11.00W32CC-- 000001200	Yes	
12-11-05-00-00600-00	2112.00S11.00W0500-- 000000600	Yes	

Study Area	Tax Map	OR Tax lot #	Right of Entry
4			
5	12-11-05-00-00800-00	2112.00S11.00W0500-- 000000800	Yes
6	12-11-06-00-01600-00	2112.00S11.00W0600-- 000001600	Yes (But not accessed)
7	12-11-05-00-00803-00	2112.00S11.00W0500-- 000000803	Yes
8	12-11-05-00-00801-00	2112.00S11.00W0500-- 000000801	Yes
9	12-11-05-00-00802-00	2112.00S11.00W0500-- 000000802	Yes
	12-11-05-CB-00300-00	2112.00S11.00W05CB-- 000000300	Yes
	12-11-05-CB-00600-00	2112.00S11.00W05CB-- 000000600	Yes
	12-11-05-CB-00700-00	2112.00S11.00W05CB-- 000000700	Yes
	12-11-05-CB-00800-00	2112.00S11.00W05CB-- 000000800	Yes
	12-11-05-CB-0ROAD-00	2112.00S11.00W05CB-- 00000ROAD	Yes
	12-11-05-CB-00200-00	2112.00S11.00W05CB-- 000000200	Yes
10	12-11-00-00-03400-00	2112.00S11.00W0000-- 000003400	Yes
	12-11-00-00-03401-00	2112.00S11.00W0000-- 000003401	Yes
	12-11-00-00-03600-00	2112.00S11.00W0000-- 000003600	Yes
	12-11-05-00-00803-00	2112.00S11.00W0500-- 000000803	Yes
	12-11-05-00-00802-00	2112.00S11.00W0500-- 000000802	Yes
	12-11-05-00-01000-00	2112.00S11.00W0500-- 000001000	Yes
	12-11-05-00-00900-00	2112.00S11.00W0500-- 000000900	Yes

Table 4

WETLANDS

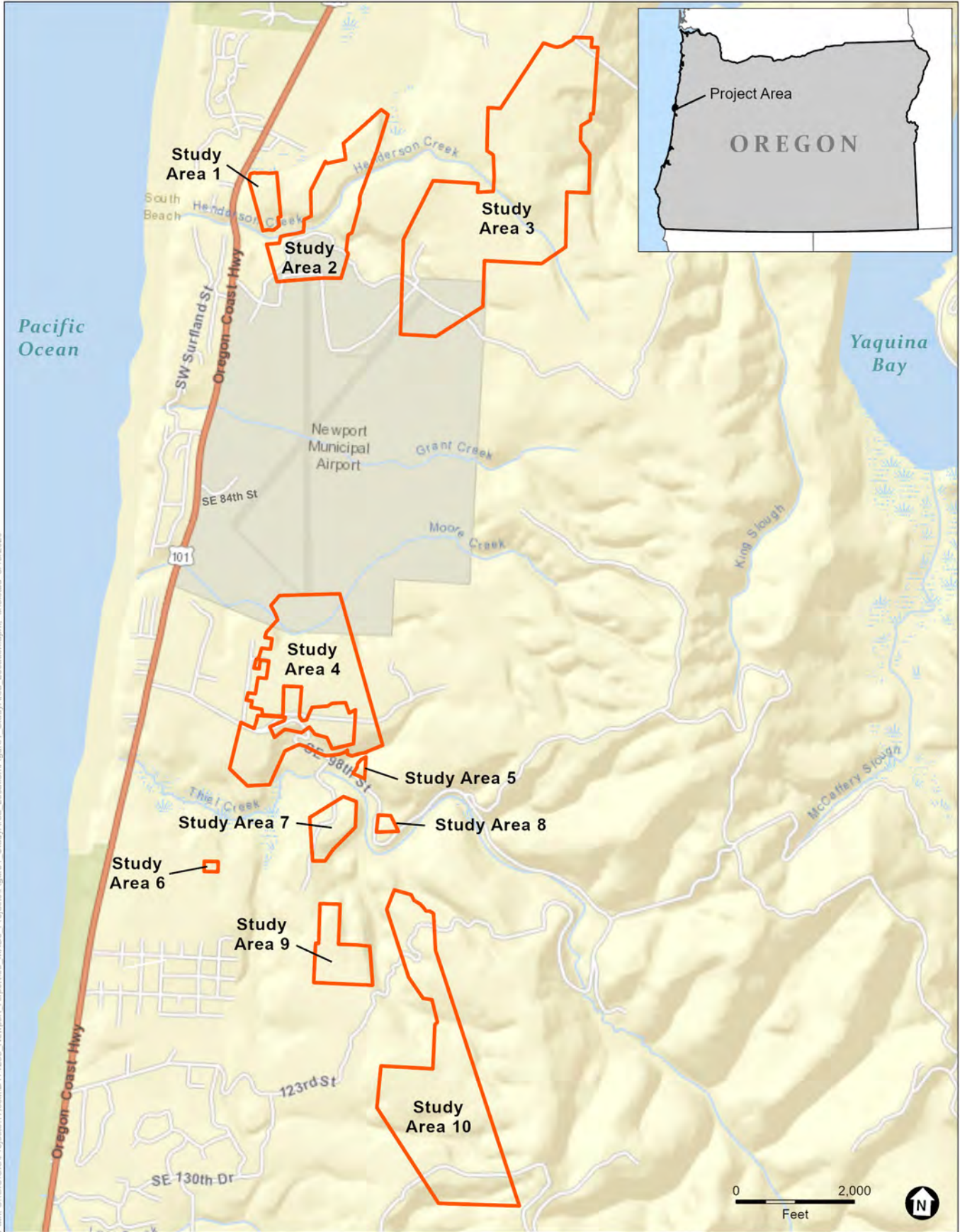
Study Area	Name	Acres	OHW Width (ft)	ESH	Jurisdictional
2	Wetland 2	0.02	N/A	No	Yes
10	Wetland 3	0.07	N/A	No	Yes
3	Wetland 4	0.03	N/A	No	Yes
3	Wetland 5	0.06	N/A	No	Yes
3	Wetland 6	0.04	N/A	No	Yes
3	Wetland 7	0.08	N/A	No	Yes
3	Wetland 8	0.14	N/A	No	Yes
2	Wetland 9	0.04	N/A	No	Yes
2	Wetland 10	0.2	N/A	No	Yes
1	Wetland 11a	0.39	N/A	No	Yes
1	Wetland 11b	0.02	N/A	No	Yes
2	Wetland 11c	0.03	N/A	No	Yes
2	Wetland 11d	0.07	N/A	Yes	Yes
2	Wetland 11e	1.99	N/A	Yes	Yes
2	Wetland 12	0.16	N/A	No	Yes
2	Wetland 13	0.02	N/A	No	Yes
3	Wetland 14	0.24	N/A	No	Yes
3	Wetland 15	0.5	N/A	No	No
3	Wetland 16	0.04	N/A	No	Yes
3	Wetland 18	0.06	N/A	No	Yes
3	Wetland 19	0.22	N/A	No	Yes
3	Wetland 20	0.02	N/A	No	Yes
3	Wetland 21a	0.28	N/A	Yes	Yes
3	Wetland 21b	0.2	N/A	Yes	Yes
3	Wetland 23	0.04	N/A	No	Yes
3	Wetland 24	0.14	N/A	No	Yes
3	Wetland 25a	0.16	N/A	No	Yes
3	Wetland 25b	0.17	N/A	No	Yes
3	Wetland 26	0.02	N/A	No	Yes
4	Wetland 27	0.42	N/A	No	Yes
4	Wetland 28	0.15	N/A	No	Yes
4	Wetland 29	0.89	N/A	No	Yes
4	Wetland 30a	0.13	N/A	Yes	Yes
4	Wetland 30b	0.09	N/A	Yes	Yes
4	Wetland 30c	0.07	N/A	Yes	Yes
4	Wetland 30d	0.04	N/A	Yes	Yes
4	Wetland 30e	0.05	N/A	Yes	Yes
	TOTAL (acres)	7.29			

WATERS

Study Area	Name	Acres	OHW Width (ft)	ESH	Jurisdictional
3, 2	Henderson Creek	N/A	10 ft	Yes	Yes
4	Moore Creek	N/A	18 ft	Yes	Yes
2	Stream 1 (Study Area 2)	N/A	6 ft	No	Yes
3	Stream 1 (Study Area 3)	N/A	78 ft (12 avg)	No	Yes
3	Stream 2	N/A	3 ft	No	Yes
3	Stream 3	N/A	2 ft	No	Yes
3	Stream 4	N/A	3 ft	No	Yes
4	Stream 5	N/A	4 ft	No	Yes
4	Stream 6	N/A	2 ft	No	Yes
4	Stream 7	N/A	1 ft	No	Yes
3	Stream 8	N/A	4 ft	No	Yes

DITCHES

Study Area	Name	Acres	OHW Width (ft)	ESH	Jurisdictional
2	Ditch 1	N/A	N/A	N/A	No
1	Ditch 2	N/A	N/A	N/A	No
2	Ditch 3	N/A	N/A	N/A	No
3	Ditch 4	N/A	N/A	N/A	No
3	Ditch 5	N/A	N/A	N/A	No
3	Ditch 6	N/A	N/A	N/A	No
10	Ditch 7	N/A	N/A	N/A	No

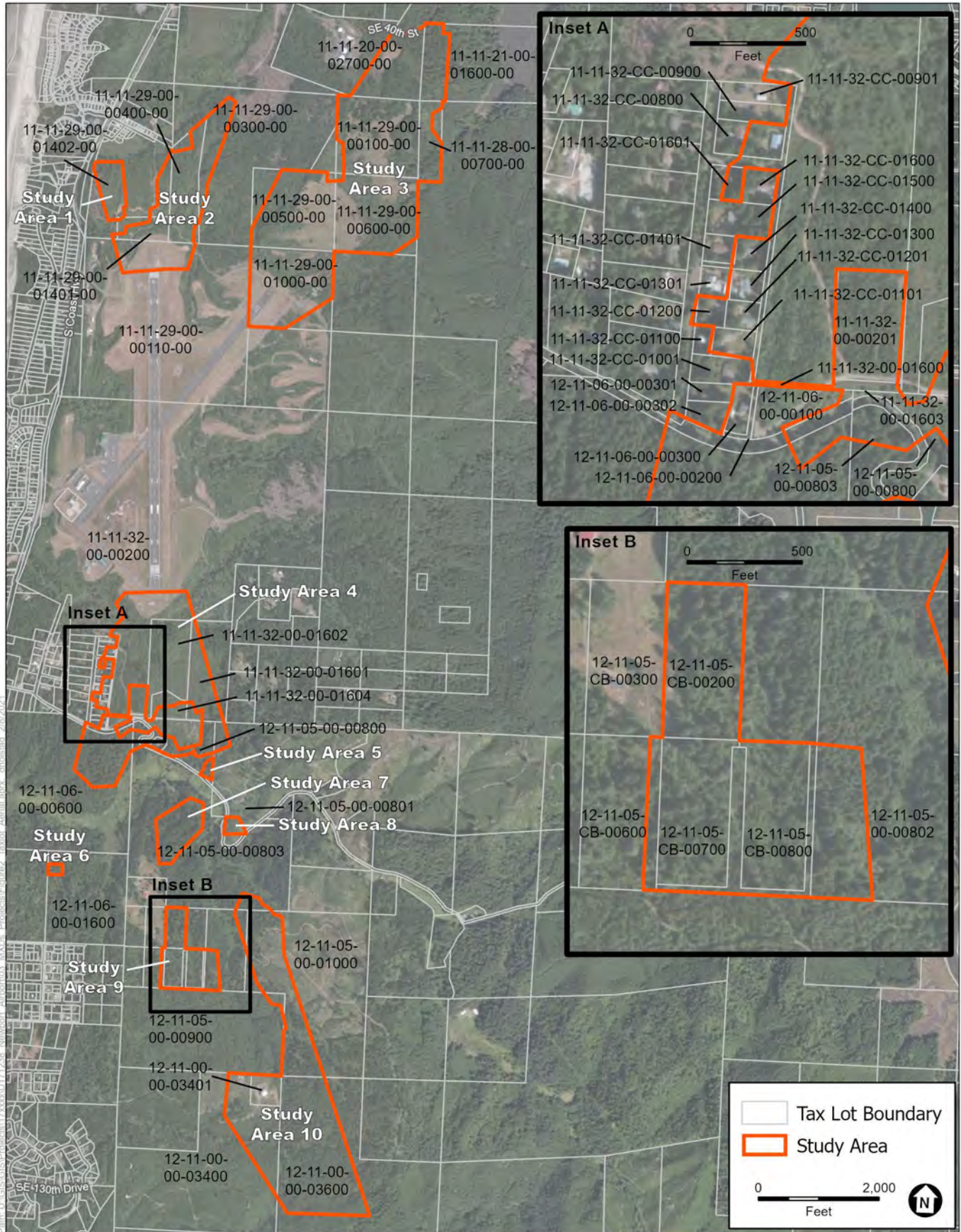


SOURCE: ESA, 2019; ESRI, 2017

D171238.00 Newport Airport EA

Figure 1
Study Area Location Map
Lincoln County, OR

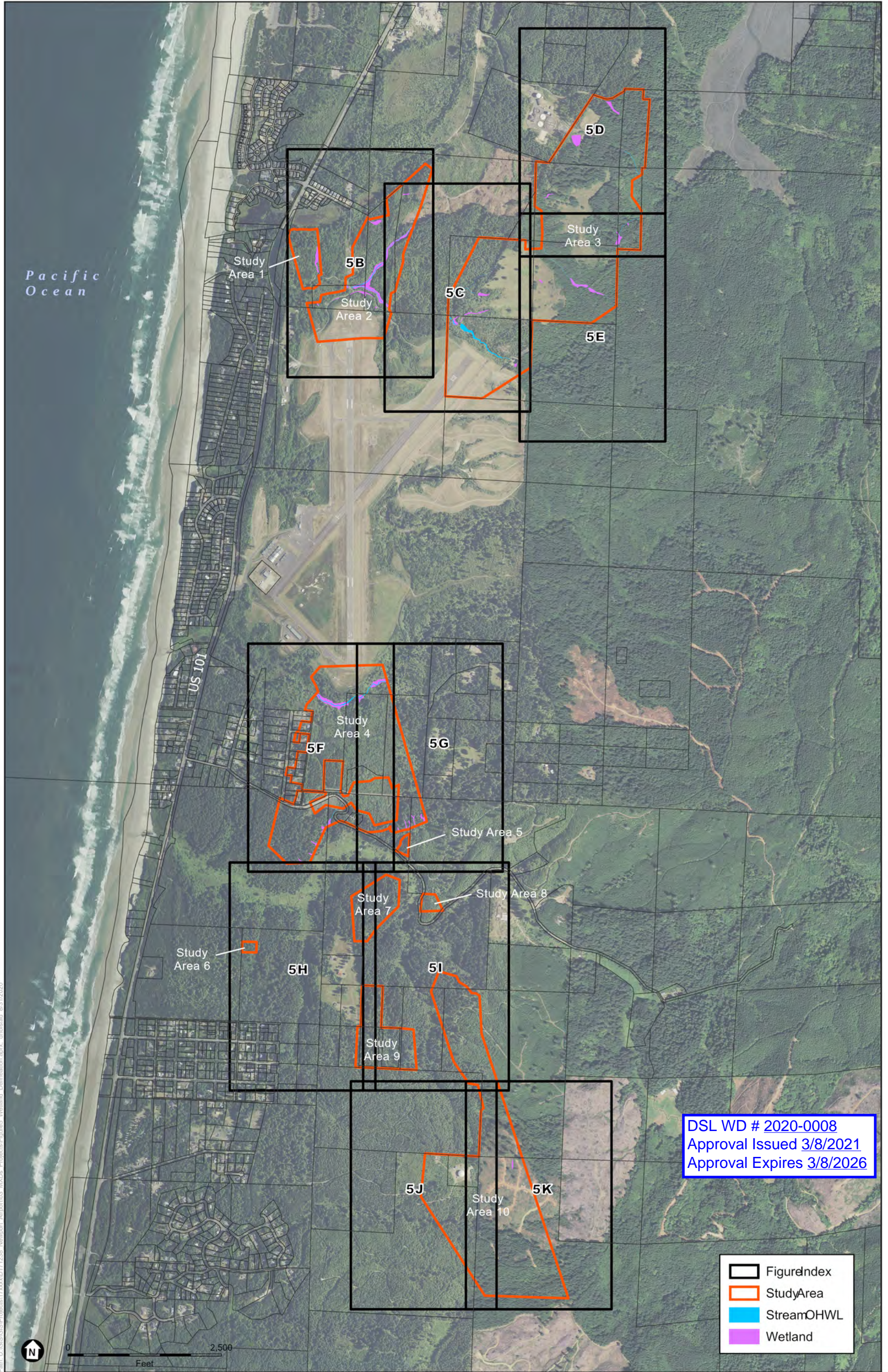




SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; Lincoln County, 2017

D171238.00 Newport Airport EA

Figure 2
Tax Lot and Aerial Map
Lincoln County, OR



Path: U:\GIS\Projects\17xxxx\171238 Newport Airport\03_MXD\Projects\Figures\Wetland Delineation.aprx, dhs\stad, 8/31/2020

; ESA, 2019; StreamNet, 2019; City of Newport, 2019.

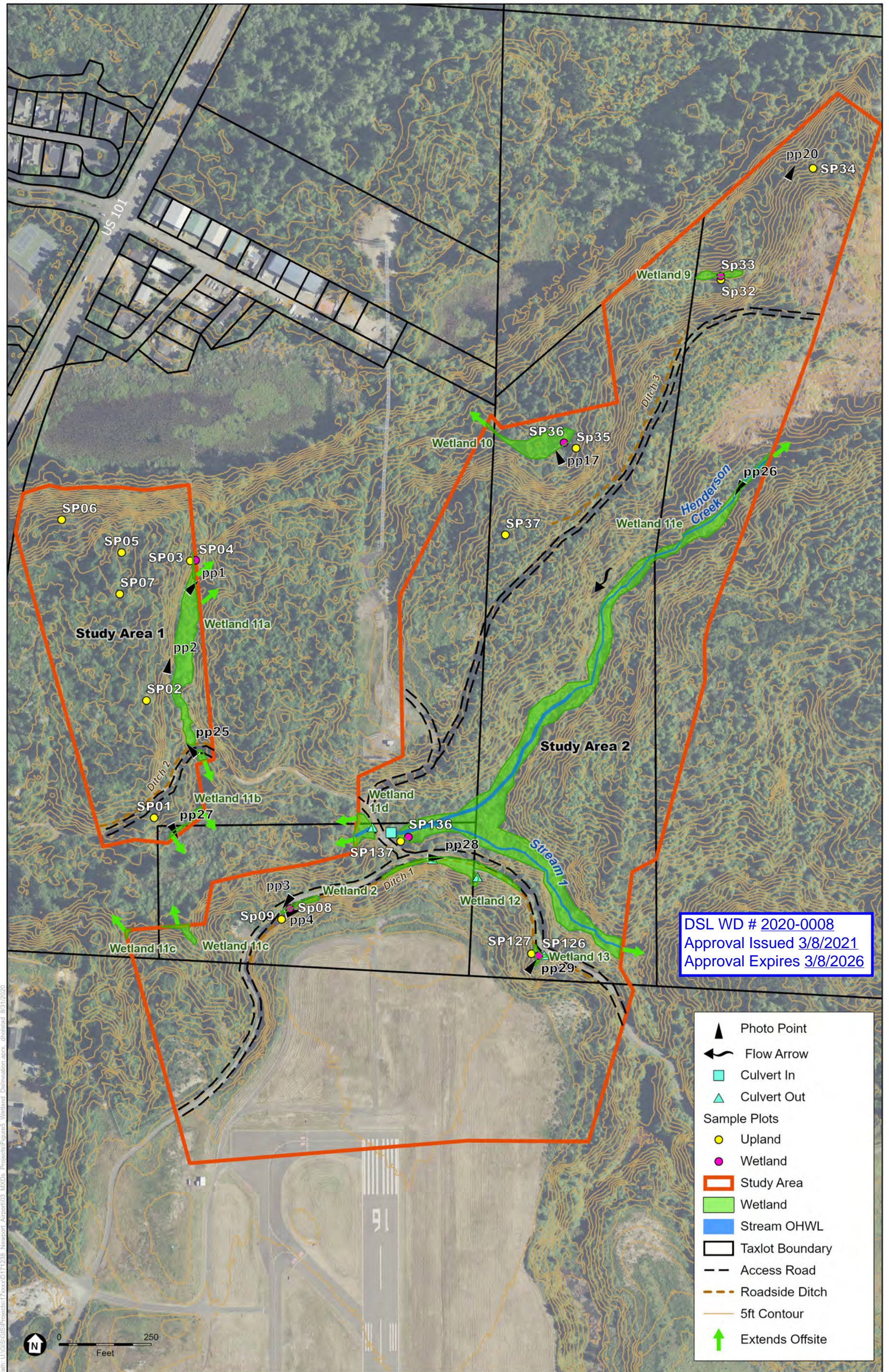
D171238.00 Newport Airport EA

DSL WD # 2020-0008
Approval Issued 3/8/2021
Approval Expires 3/8/2026

- FigureIndex
- StudyArea
- StreamOHWL
- Wetland

Figure 5A
Wetland Delineation Map
Lincoln County, OR





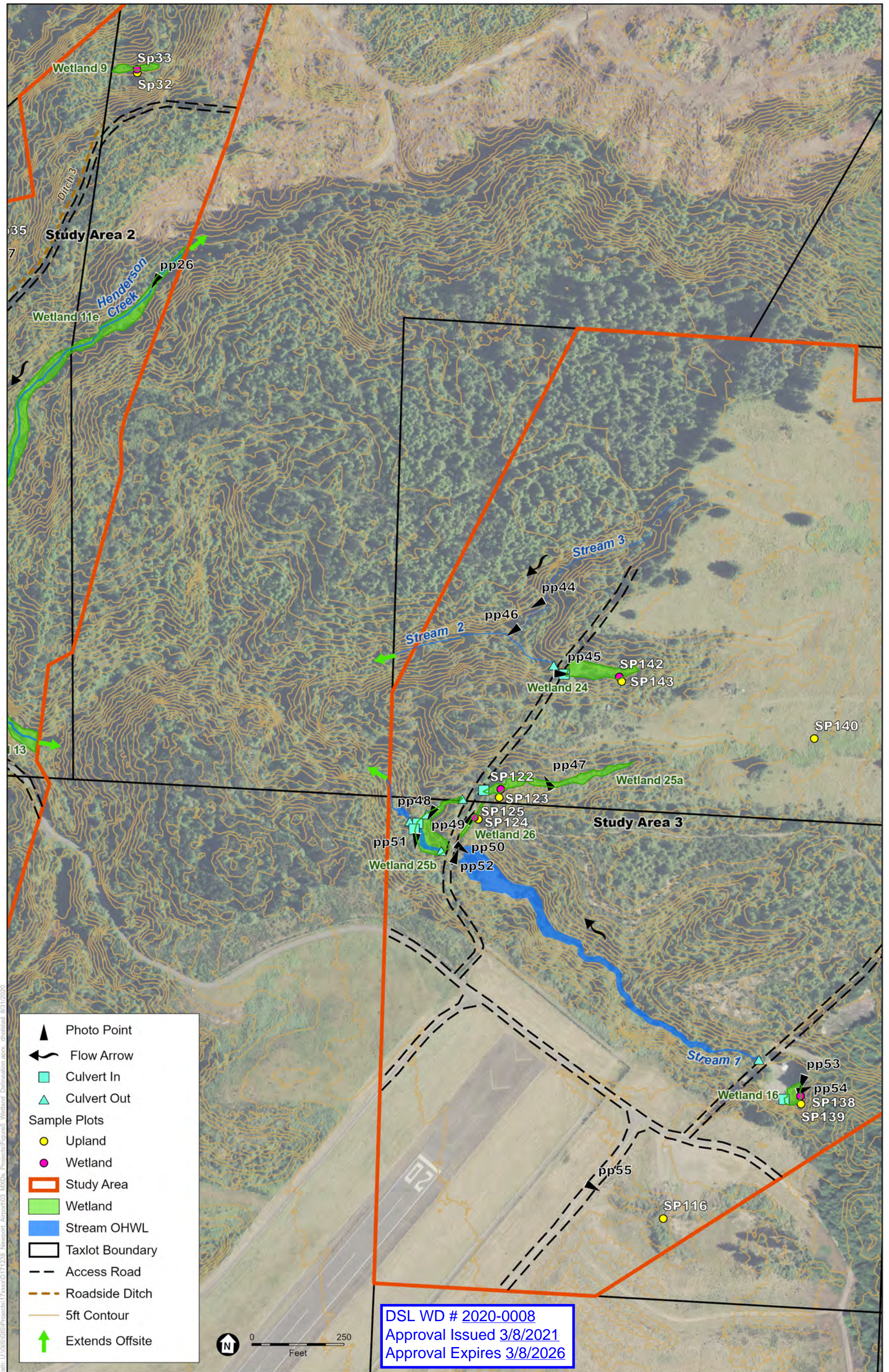
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 OSIP_2018\OSIP_2018_WM : ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5B
 Wetland Delineation Overview Map
 Lincoln County, OR





Path: U:\GIS\GISProjects\17000\171238 Newport Airport EA\Projects\Figures5 Wetland Delineation.aprx; allocated: 3/31/2020

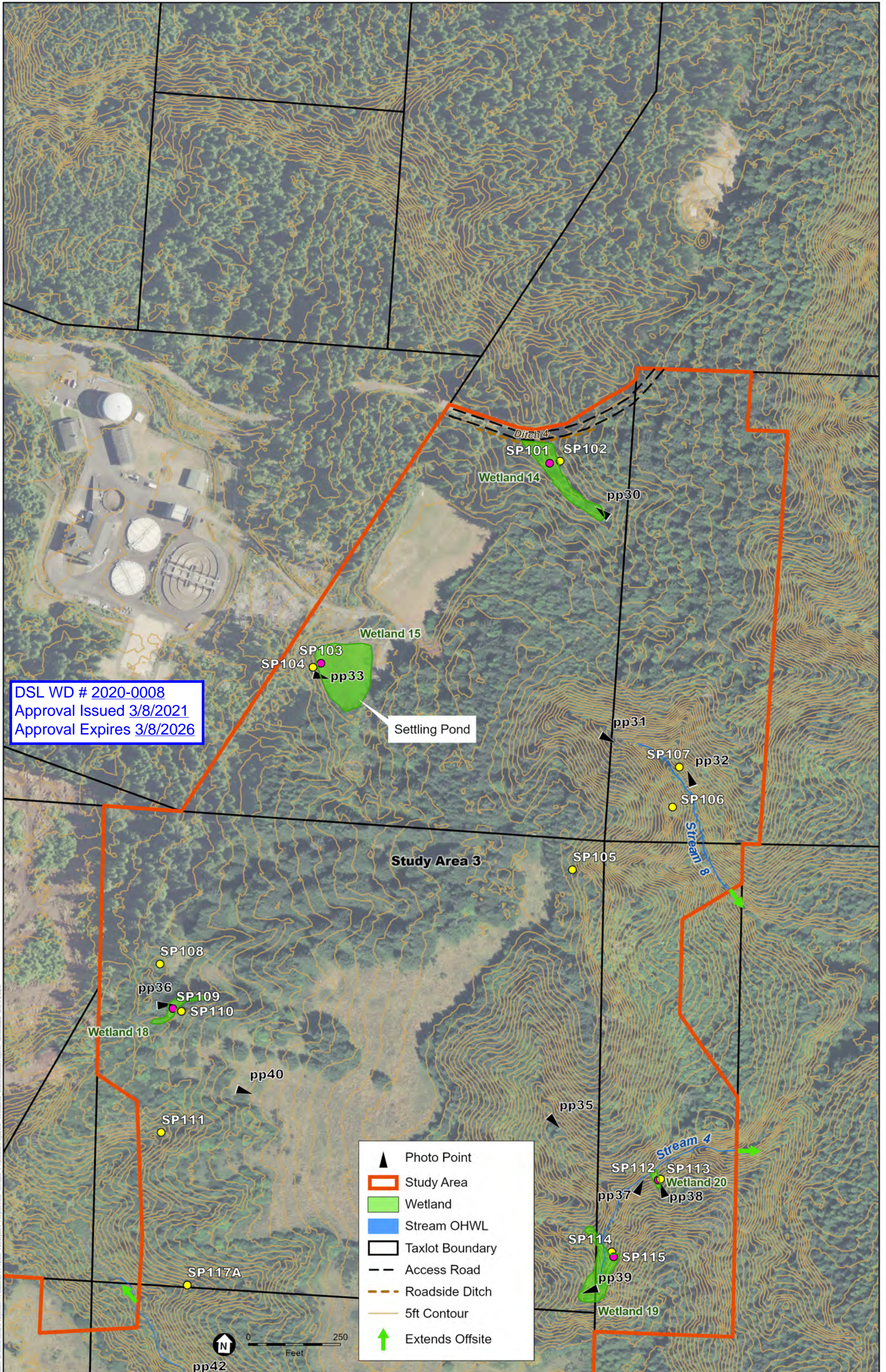
OSIP_2018\OSIP_2018_WM: ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5C
 Wetland Delineation Overview Map
 Lincoln County, OR





DSL WD # 2020-0008
 Approval Issued 3/8/2021
 Approval Expires 3/8/2026

- ▲ Photo Point
- ▭ Study Area
- Wetland
- ▬ Stream OHWL
- ▭ Taxlot Boundary
- - - Access Road
- - - Roadside Ditch
- 5ft Contour
- ↑ Extends Offsite

Path: U:\GIS\GIS-Projects\17238 Newport Airport EA\17238 Newport Airport EA\Wetland Delineation.aprx, alt: 8/31/2020

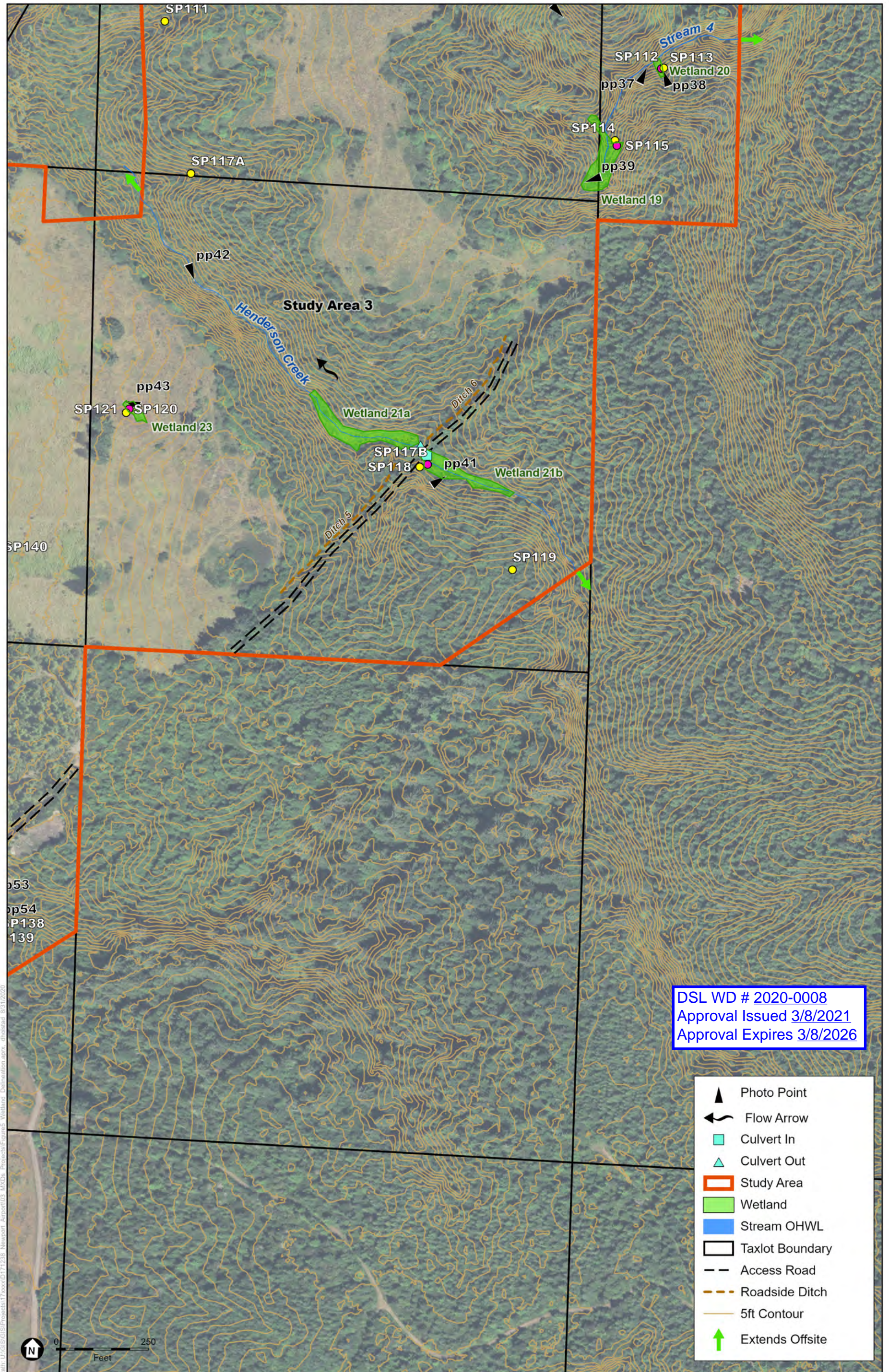
OSIP_2018\OSIP_2018_WM : ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5D
 Wetland Delineation Overview Map
 Lincoln County, OR





DSL WD # 2020-0008
 Approval Issued 3/8/2021
 Approval Expires 3/8/2026

- ▲ Photo Point
- ↪ Flow Arrow
- ◻ Culvert In
- ◻ Culvert Out
- ▭ Study Area
- Wetland
- ▬ Stream OHWL
- ▭ Taxlot Boundary
- - - Access Road
- - - Roadside Ditch
- 5ft Contour
- ↑ Extends Offsite

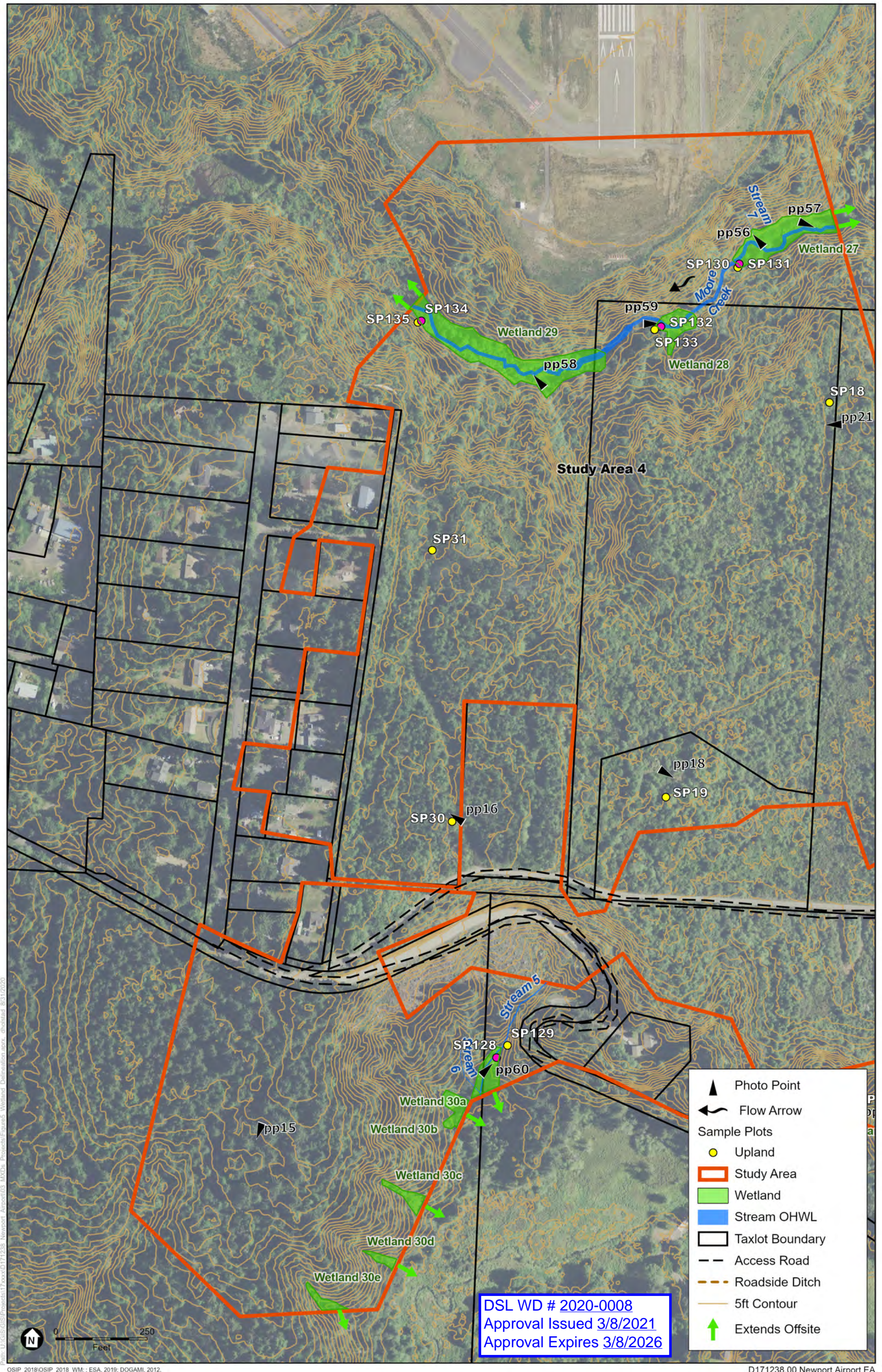
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 OSIP_2018\OSIP_2018_WM : ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5E
 Wetland Delineation Overview Map
 Lincoln County, OR





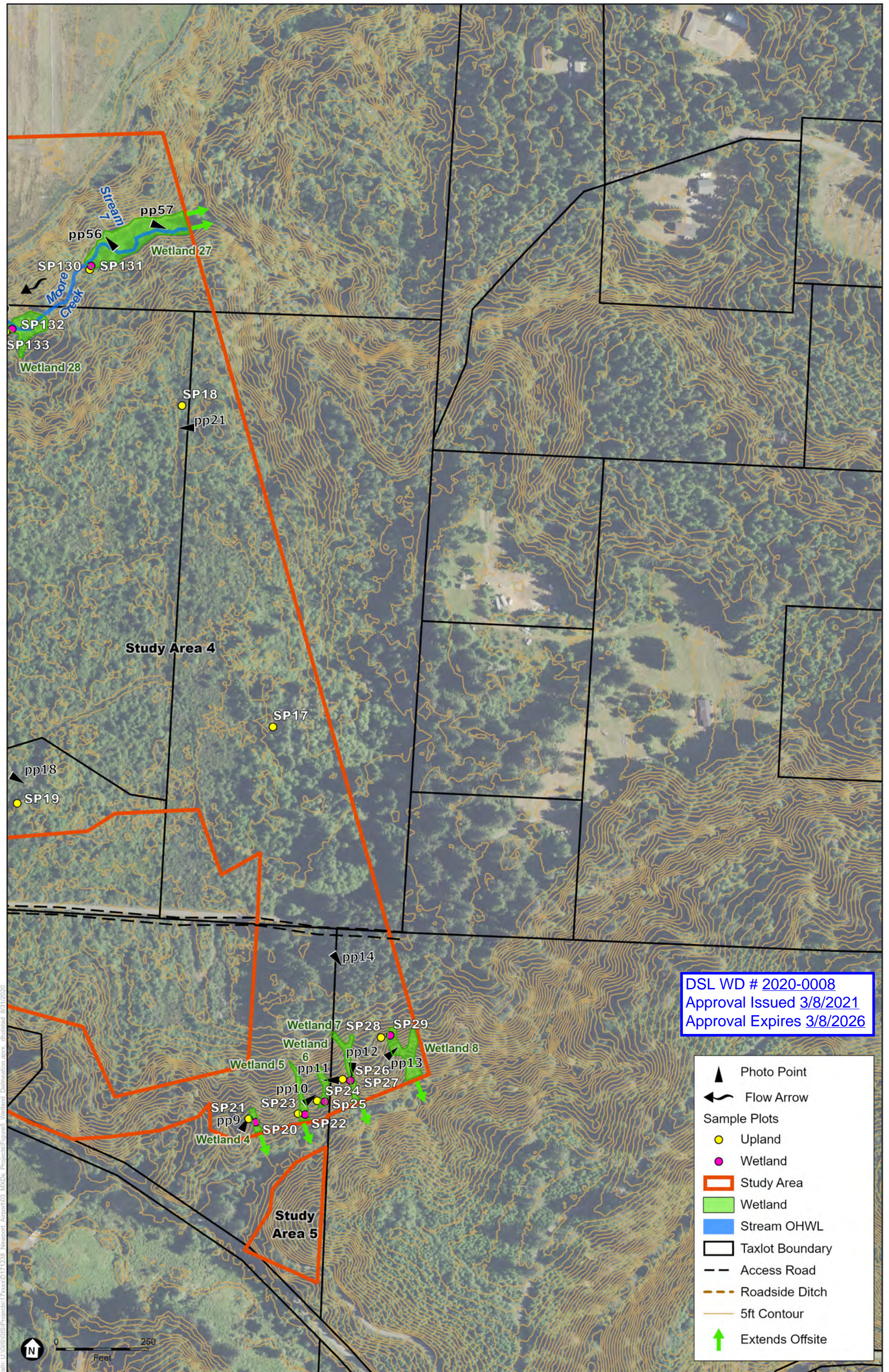
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 OSIP_2018\OSIP_2018_WM : ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5F
 Wetland Delineation Overview Map
 Lincoln County, OR





DSL WD # 2020-0008
 Approval Issued 3/8/2021
 Approval Expires 3/8/2026

- Photo Point
- Flow Arrow
- Sample Plots
 - Upland
 - Wetland
- Study Area
- Wetland
- Stream OHWL
- Taxlot Boundary
- Access Road
- Roadside Ditch
- 5ft Contour
- Extends Offsite

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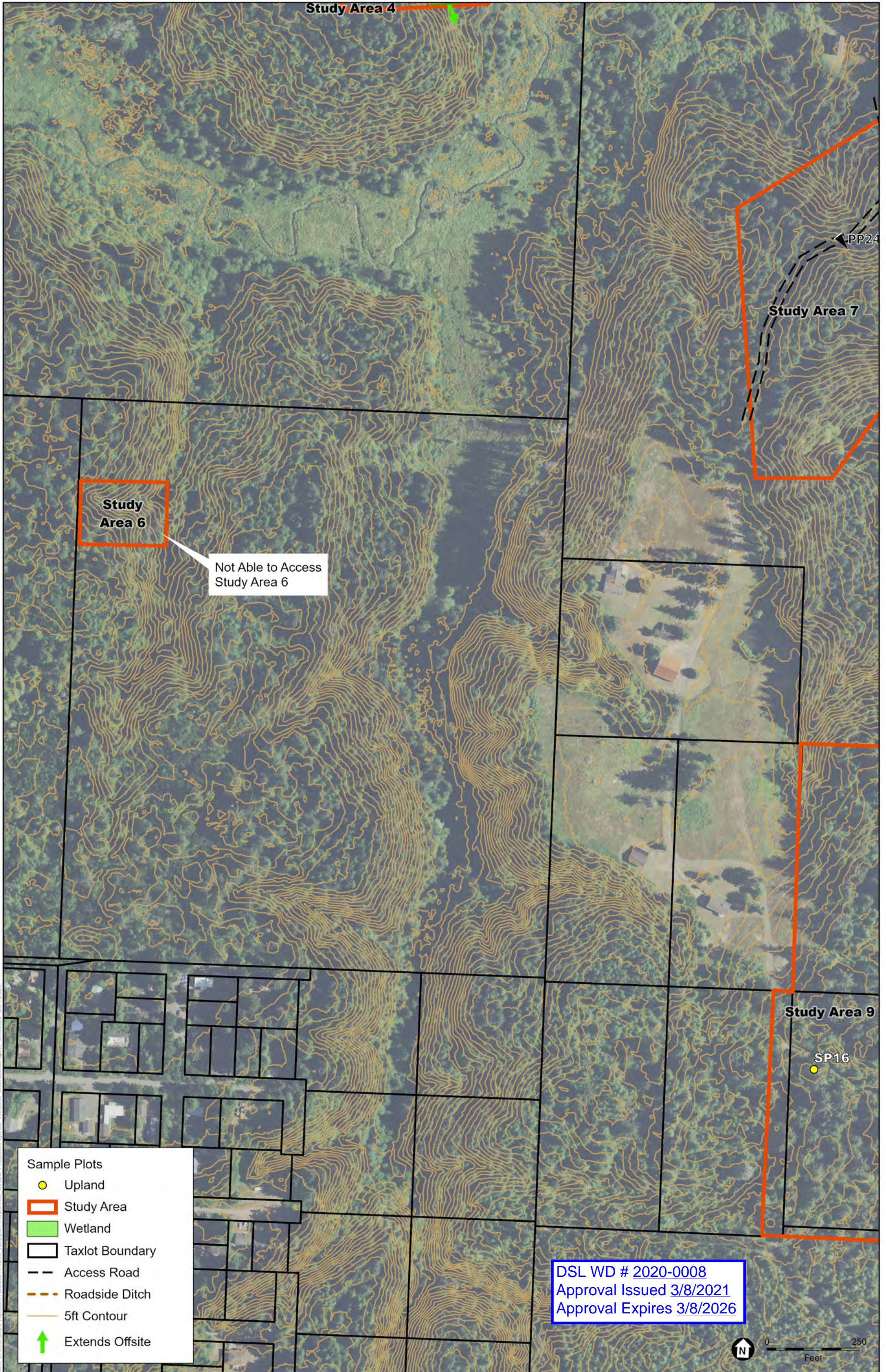
OSIP_2019\OSIP_2018_WM : ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5G
 Wetland Delineation Overview Map
 Lincoln County, OR





Path: U:\GIS\Projects\171238 Newport Airport EA\103_MXD\Projects\171238 Newport Airport EA\103_MXD\Deliverables\Map\171238_03112020

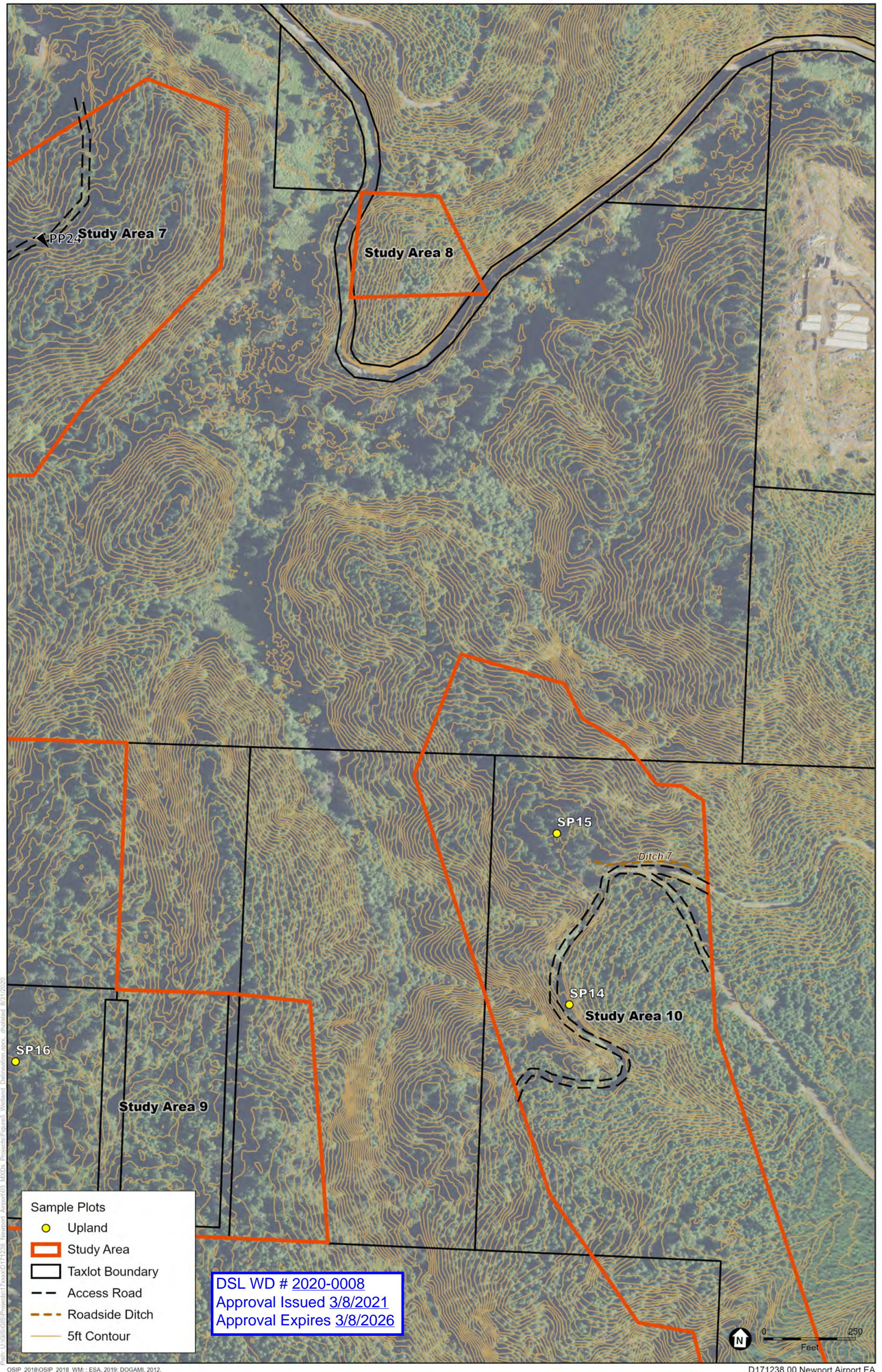
OSIP_2019\OSIP_2018_WM : ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5H
Wetland Delineation Overview Map
Lincoln County, OR





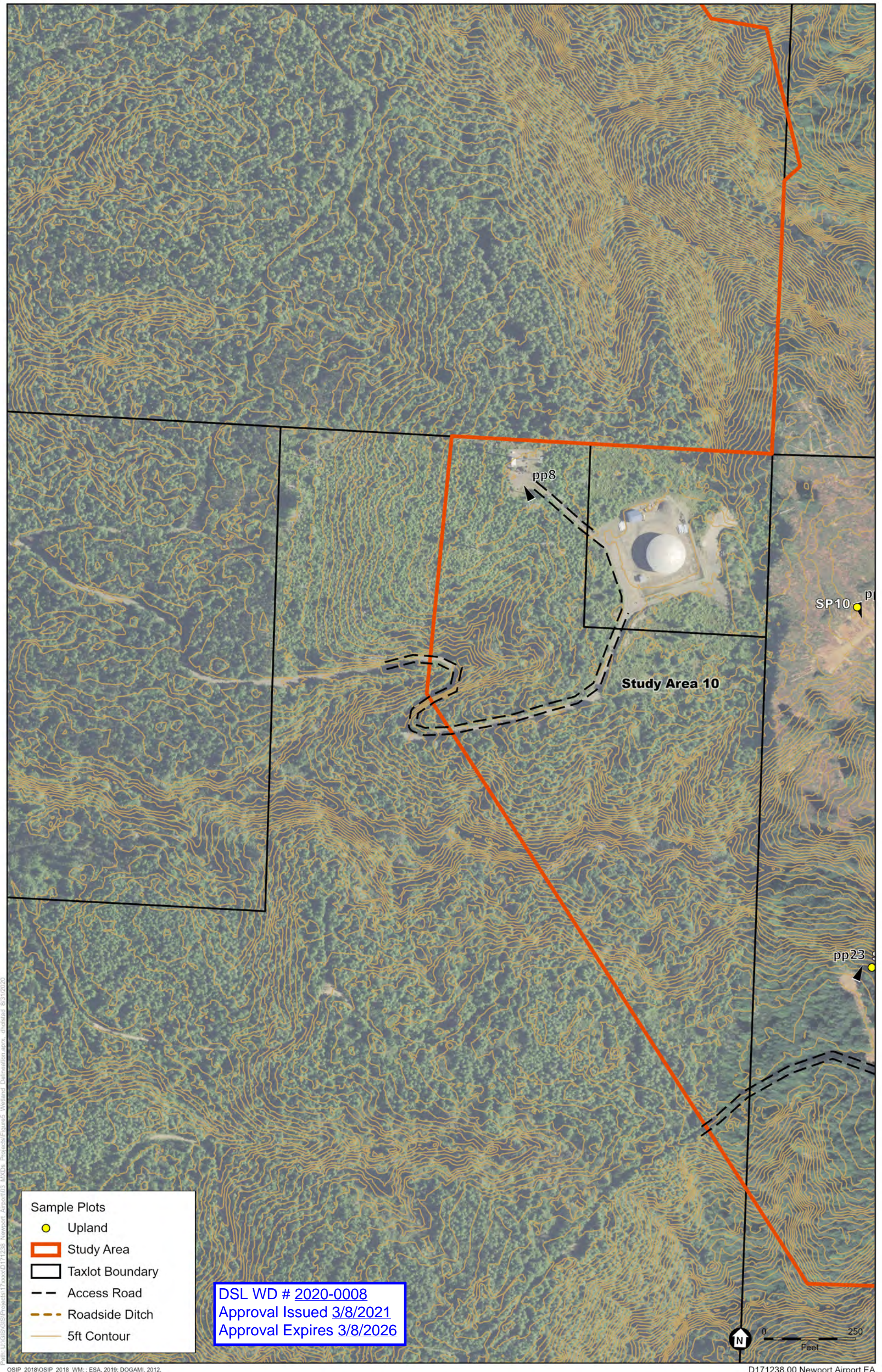
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 OSIP_2018\OSIP_2018_WM : ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 51
Wetland Delineation Overview Map
Lincoln County, OR





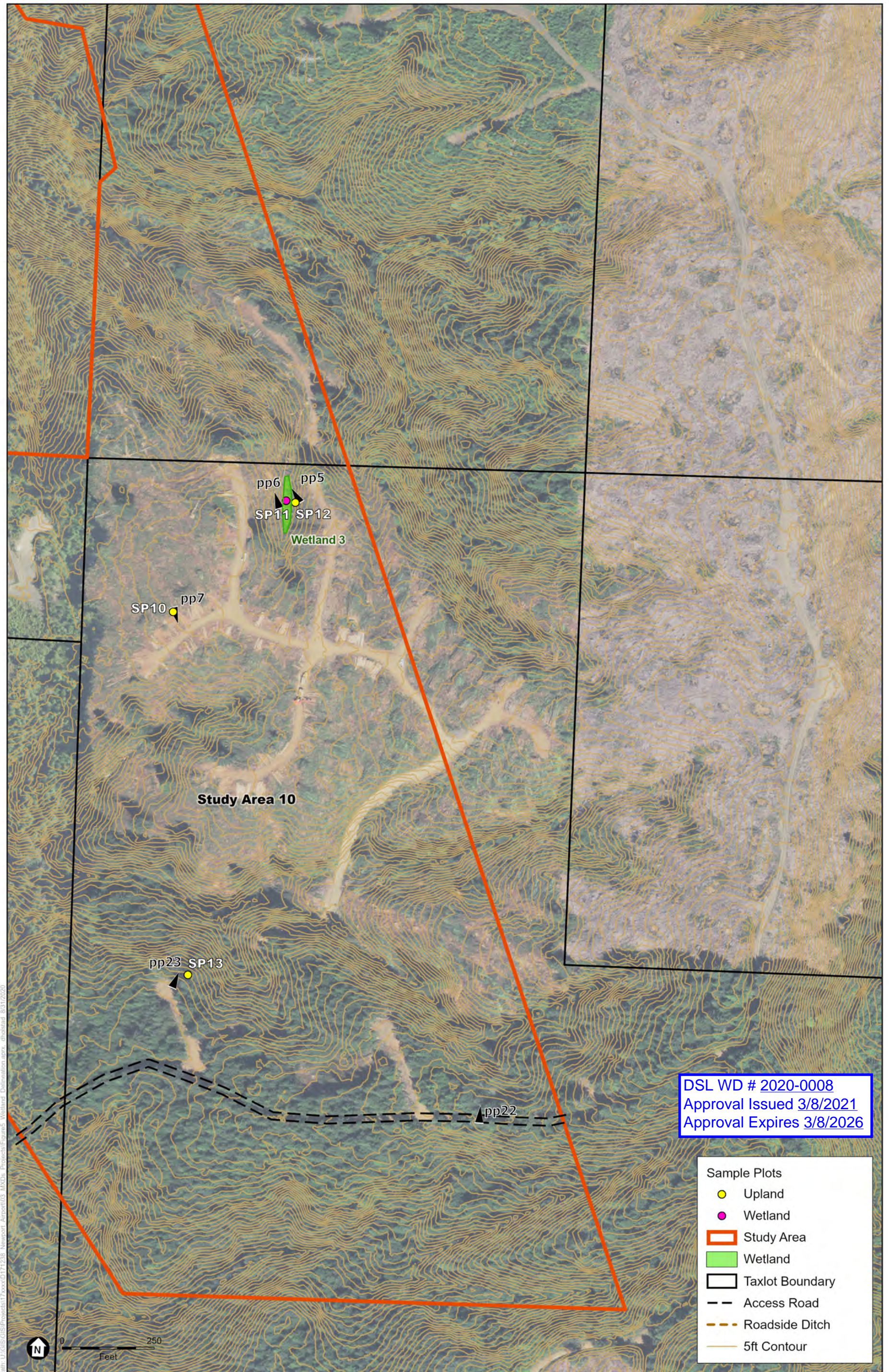
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 OSIP_2019\OSIP_2018_WM: ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5J
 Wetland Delineation Overview Map
 Lincoln County, OR





Accuracy Statement: Sample Points and water resource boundaries were mapped using a Bad Elf GNSS bluetooth receiver and a tablet data collector capable of 1m positional accuracy.

Figure 5K
Wetland Delineation Overview Map
Lincoln County, OR

WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at: <https://apps.oregon.gov/DSL/EPS/program?key=4>.

Attach this completed and signed form to the front of an unbound report or include a hard copy with a digital version (single PDF file of the report cover form and report, minimum 300 dpi resolution) and submit to: **Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279**. A single PDF of the completed cover form and report may be e-mailed to: **Wetland_Delineation@dsl.state.or.us**. For submittal of PDF files larger than 10 MB, e-mail DSL instructions on how to access the file from your ftp or other file sharing website.

Contact and Authorization Information	
<input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Owner Name, Firm and Address: Lance Vanderbeck, Airport Director Newport Municipal Airport 135 SE 84th Street South Beach, OR 97366	Business phone # (541) 867-7422 Mobile phone # (optional) E-mail: L.Vanderbeck@NewportOregon.gov
<input type="checkbox"/> Authorized Legal Agent, Name and Address (if different):	Business phone # Mobile phone # (optional) E-mail:
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: <u>Lance Vanderbeck</u> Signature: Date: <u>12-23-2019</u> Special instructions regarding site access: _____	
Project and Site Information	
Project Name: Newport Municipal Airport Obstruction Removal	Latitude: <u>44.579275°</u> Longitude: <u>-124.059759°</u> decimal degree - centroid of site or start & end points of linear project
Proposed Use: Removal of obstructions (trees) from FAA regulated cone of approach to Airport runways.	Tax Map # See attached table. Tax maps and lots organized by study area Tax Lot(s) _____ Tax Map # _____ Tax Lot(s) _____
Project Street Address (or other descriptive location): 135 SE 84th Street	Township 11 S Range 11 S Section 29 QQ Use separate sheet for additional tax and location information
City: Newport/South Beach County: Lincoln	Waterway: Henderson Creek River Mile: <u>NA</u>
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address: Luke Johnson, Wetland Biologist Environmental Science Associates 819 SE Morrison Street, Suite 310 Portland, OR 97214	Phone # (971) 295-5041 Mobile phone # (if applicable) E-mail: ljohnson@esassoc.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:	Date: 10/24/2019
Primary Contact for report review and site access is <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Applicant/Owner <input type="checkbox"/> Authorized Agent	
Wetland/Waters Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Study Area size: 521.25 acres Total Wetland Acreage: 7.2800	
Check Applicable Boxes Below	
<input type="checkbox"/> R-F permit application submitted	<input checked="" type="checkbox"/> Fee payment submitted \$ 454 <u>\$466</u>
<input type="checkbox"/> Mitigation bank site	<input type="checkbox"/> Resubmittal of rejected report (\$100)
<input type="checkbox"/> EFSC/ODOE Proj. Mgr: _____	<input type="checkbox"/> Request for Reissuance. See eligibility criteria. (no fee)
<input type="checkbox"/> Wetland restoration/enhancement project (not mitigation)	DSL # _____ Expiration date _____
<input type="checkbox"/> Previous delineation/application on parcel If known, previous DSL # _____	<input type="checkbox"/> LWI shows wetlands or waters on parcel Wetland ID code _____
For Office Use Only	
DSL Reviewer: _____ Fee Paid Date: ____/____/____	DSL WD # _____
Date Delineation Received: ____/____/____ Scanned: <input type="checkbox"/> Electronic: <input type="checkbox"/>	DSL App.# _____

Study Area	Tax Map	OR Tax lot #	Right of Entry
1	11-11-29-00-01402-00	2111.00S11.00W2900-- 000001402	Yes
	11-11-29-00-01401-00	2111.00S11.00W2900-- 000001401	Yes
2	11-11-29-00-01402-00	2111.00S11.00W2900-- 000001402	Yes
	11-11-29-00-01401-00	2111.00S11.00W2900-- 000001401	Yes
	11-11-29-00-00400-00	2111.00S11.00W2900-- 000000400	Yes
3	11-11-20-00-02700-00	2111.00S11.00W2000-- 000002700	Yes
	11-11-21-00-01600-00	2111.00S11.00W2100-- 000001600	Yes
	11-11-28-00-00700-00	2111.00S11.00W2800-- 000000700	Yes
	11-11-29-00-00100-00	2111.00S11.00W2900-- 000000100	Yes
	11-11-29-00-00500-00	2111.00S11.00W2900-- 000000500	Yes
	11-11-29-00-00600-00	2111.00S11.00W2900-- 000000600	Yes
	11-11-29-00-01000-00	2111.00S11.00W2900-- 000001000	Yes
4	11-11-32-00-00200-00	2111.00S11.00W3200-- 000000200	Yes
	11-11-32-00-01602-00	2111.00S11.00W3200-- 000001602	Yes
	11-11-32-00-01601-00	2111.00S11.00W3200-- 000001601	Yes
	11-11-32-00-00201-00	2111.00S11.00W3200-- 000000201	No
	11-11-32-00-01600-00	2111.00S11.00W3200-- 000001600	No
	11-11-32-CC-0ROAD-00	2111.00S11.00W32CC-- 00000ROAD	Yes
	11-11-32-CC-00901-00	2111.00S11.00W32CC-- 000000901	No
	11-11-32-CC-00900-00	2111.00S11.00W32CC-- 000000900	No
	11-11-32-CC-00800-00	2111.00S11.00W32CC-- 000000800	Yes
	11-11-32-CC-01601-00	2111.00S11.00W32CC-- 000001601	Yes

Study Area	Tax Map	OR Tax lot #	Right of Entry
	11-11-32-CC-01600-00	2111.00S11.00W32CC-- 000001600	No
	11-11-32-CC-01401-00	2111.00S11.00W32CC-- 000001401	No
	11-11-32-CC-01400-00	2111.00S11.00W32CC-- 000001400	Yes
	11-11-32-CC-01301-00	2111.00S11.00W32CC-- 000001301	No
	11-11-32-CC-01300-00	2111.00S11.00W32CC-- 000001300	Yes
	11-11-32-CC-01201-00	2111.00S11.00W32CC-- 000001201	Yes
	11-11-32-CC-01100-00	2111.00S11.00W32CC-- 000001100	No
	11-11-32-CC-01101-00	2111.00S11.00W32CC-- 000001101	Yes
	11-11-32-CC-01001-00	2111.00S11.00W32CC-- 000001001	No
	12-11-05-00-00800-00	2112.00S11.00W0500-- 000000800	Yes
	12-11-05-00-0ROAD-00	2112.00S11.00W0500-- 00000ROAD	Yes
	12-11-05-00-00803-00	2112.00S11.00W0500-- 000000803	Yes
	12-11-05-00-00801-00	2112.00S11.00W0500-- 000000801	Yes
	12-11-06-00-00600-00	2112.00S11.00W0600-- 000000600	Yes
	12-11-06-00-0ROAD-00	2112.00S11.00W0600-- 00000ROAD	Yes
	12-11-06-00-00301-00	2112.00S11.00W0600-- D00100301	No
	12-11-06-00-00300-00	2112.00S11.00W0600-- D00100300	Yes
	12-11-06-00-00200-00	2112.00S11.00W0600-- D00100200	Yes
	12-11-06-00-00100-00	2112.00S11.00W0600-- D00100100	Yes
	11-11-32-00-01604-00	2111.00S11.00W3200-- 000001604	Yes
	11-11-32-00-01603-00	2111.00S11.00W3200-- 000001603	No
	11-11-32-CC-01500-00	2111.00S11.00W32CC-- 000001500	No
	11-11-32-CC-01200-00	2111.00S11.00W32CC-- 000001200	Yes
	12-11-05-00-00600-00	2112.00S11.00W0500-- 000000600	Yes

Study Area	Tax Map	OR Tax lot #	Right of Entry
	12-11-06-00-00302-00	2112.00S11.00W0600-- D00100302	No
5	12-11-05-00-00800-00	2112.00S11.00W0500-- 000000800	Yes
6	12-11-05-00-00800-00	2112.00S11.00W0500-- 000000800	Yes
7	12-11-05-00-00803-00	2112.00S11.00W0500-- 000000803	Yes
8	12-11-05-00-00801-00	2112.00S11.00W0500-- 000000801	Yes
9	12-11-05-00-00802-00	2112.00S11.00W0500-- 000000802	Yes
	12-11-05-CB-00300-00	2112.00S11.00W05CB-- 000000300	Yes
	12-11-05-CB-00600-00	2112.00S11.00W05CB-- 000000600	Yes
	12-11-05-CB-00700-00	2112.00S11.00W05CB-- 000000700	Yes
	12-11-05-CB-00800-00	2112.00S11.00W05CB-- 000000800	Yes
	12-11-05-CB-0ROAD-00	2112.00S11.00W05CB-- 00000ROAD	Yes
	12-11-05-CB-00200-00	2112.00S11.00W05CB-- 000000200	Yes
10	12-11-00-00-03400-00	2112.00S11.00W0000-- 000003400	Yes
	12-11-00-00-03401-00	2112.00S11.00W0000-- 000003401	Yes
	12-11-00-00-03600-00	2112.00S11.00W0000-- 000003600	Yes
	12-11-05-00-00803-00	2112.00S11.00W0500-- 000000803	Yes
	12-11-05-00-00802-00	2112.00S11.00W0500-- 000000802	Yes
	12-11-05-00-01000-00	2112.00S11.00W0500-- 000001000	Yes
	12-11-05-00-00900-00	2112.00S11.00W0500-- 000000900	Yes

NEWPORT MUNICIPAL AIRPORT OBSTRUCTION REMOVAL WATER RESOURCE DELINEATION REPORT

Prepared for

October 2019

City of Newport



NEWPORT MUNICIPAL AIRPORT OBSTRUCTION REMOVAL WATER RESOURCE DELINEATION REPORT

Prepared for

October 2019

City of Newport



819 SE Morrison Street

Suite 310

Portland, OR 97214

503.274.2010

TABLE OF CONTENTS

A) Landscape Setting and Land Use	1
B) Site Alterations	2
C) Precipitation Data and Analysis	3
D) Methods	5
Literature Review	5
Field Investigations	6
Soil Analysis	7
E) Description of All Wetlands and Other Nonwetland Waters	8
Wetlands	9
Other Nonwetland Waters	15
F) Deviation from LWI or NWI	17
G) Mapping Method	19
H) Additional Information	19
I) Results and Conclusions	19
J) Required Disclaimer	21

List of Tables

Table 1. Summary of Precipitation for Newport, Oregon (inches) – May Field Survey	4
Table 2. Summary of Precipitation for Newport, Oregon (inches) – September Field Survey	5
Table 3. Mapped Soil Units in the Water Resource Delineation Study Areas	8
Table 4. Summary of Water Resource Delineation	20

Appendices

- A. Figures
- B. Datasheets
- C. Photos
- D. Literature Cited

A) LANDSCAPE SETTING AND LAND USE

The City of Newport, Oregon (City) owns and operates Newport Municipal Airport (Airport). The Airport supported commercial passenger service with connections to Portland International Airport until 2011, when the service was discontinued. Today, the Airport is home to more than 26 light general aviation aircraft and approximately 20,000 annual aircraft operations.

The Airport is located within the Newport city limits in Lincoln County, east of U.S. Highway 101 (U.S. 101) at 135 SE 84th Street (**Appendix A**, Figure 1). The site is approximately 40 miles west of Corvallis in Section 29, Township 11 South, Range 11 South, of the Willamette Meridian. The Airport entrance is on SE 84th Street, just east of U.S. 101. Tax lots within the study areas are shown on Figure 2. National Wetlands Inventory (NWI) and soil mapping are shown on Figures 3 and 4.

The ten water resource delineation study areas are a mix of Airport-managed and private properties (**Appendix A**, Figure 2):

- *Study Areas 1 and 2* are on Airport property that is bounded by a freshwater pond to the north and by U.S. 101 to the west. A mix of privately managed forest is located east of the Airport property.
- *Study Area 3* is located on Airport, City of Newport Public Works, and privately managed forest properties.
- *Study Area 4* is a mix of Airport, rural-residential, and privately managed forest properties.
- *Study Areas 5–10* are located on privately managed forest lands that vary in condition. Study Area 5 is a small portion of a ridgeline within a large privately managed forest.

Current land use adjacent to the ten study areas consists of a mix of rural-residential and managed forests (**Appendix A**, Figure 2). These land uses have been in place for at least the last 25 years, and likely much longer. The study areas are located mostly within the City of Newport's urban growth boundary. Study Area 1 is zoned by the City as Light Industrial (I-1). Study Areas 2, 3, and 4 are zoned by the City as either Public Structures (P-1) or High Density Multi-Family. The small portion of Study Area 4 located outside of the urban growth boundary is zoned by Lincoln County as Timber Conservation (T-C).

The ten study areas are situated on steep terrain in the foothills and headlands of the Central Oregon Coast Range. The temperate rainforest in this area has been significantly altered through logging and development of roads. In areas that have been historically disturbed, the second-growth forests and shrub layers have very dense vegetation. The steep and diverse topography of the study areas is influenced by the drainages of four streams that flow west through these areas and into the Pacific Ocean. As a result, the topography is characterized by ridgelines and steep drainages. Elevations in the areas

range from 16 feet to 380 feet above mean sea level. The lowest elevations in these study areas are located at the bottom of drainages that flow into one of the four streams.

The average elevation of the Airport airfield is 140 feet above mean sea level. Airfield topography is mostly flat, with the elevation over most of the site varying from the mean by no more than 20 feet (**Appendix A**, Figures 5A–5K). The airfield’s lowest elevations are located at the bottom of the drainage ditches that convey stormwater away from the Airport.

B) SITE ALTERATIONS

Alterations in and adjacent to the water resource delineation study areas that have influenced the presence, location, and boundaries of wetlands and other waters include logging, grading, leveling, building and road construction, and drainage to control naturally occurring hydrology. Most of the ten study areas have been altered by logging during the last 25 years.

Of the study areas, Study Areas 4–10 have experienced the most substantial alterations in the last 25 years. Alterations at those locations occurred between 2003 and 2005 and between 2014 and 2019:

- *Study Areas 1 and 2:* Between 1994 and 2000, most of Study Area 1 was clear-cut. Several access roads were also constructed within the study areas during this time. These roads have been regularly maintained through present day. Study Areas 1 and 2 experienced significant development between 2003 and 2005. During this time, extensive vegetation was cleared from an area roughly 150 feet wide by approximately 2,000 feet north from the edge of Runway 16. A series of towers, lights, and flight navigational aids was constructed in the vegetation clearing area. The navigational aid structure extends north of Study Area 2 and crosses the freshwater pond to the north. During this time, access roads and staging areas were also constructed. These access roads, compacted areas, and associated side ditches have intersected water resources in some areas and have concentrated hydrology in other areas. The access road that crosses Henderson Creek and its tributaries has likely impounded streamflows at the culvert crossings (Wetlands 11d, 11e, and 13), which has expanded previous wetland boundaries within the floodplain. In other areas, this access road has crossed the floodplain of Henderson Creek and has separated previously contiguous wetlands (Wetland 2, 11c, and 12). Between 2003 and 2005, several areas in the northeastern portion of Study Area 1 were clear-cut. The area has a network of access roads and staging areas that were likely built and expanded during that time.
- *Study Area 3:* Prior to 1994, an access road and the City of Newport Police shooting range were developed within a wetland complex and stream channel in the southeast portion of Study Area 3. This development likely displaced historic hydrology and

water resource features at this location. This concrete and gravel pad also likely impounded previous streamflows, which has converted a small stream into a wetland (Wetland 16). Between 1994 and 2000, most of Study Area 3 was clear-cut and subsequently managed as pasture for livestock between 1994 and 2011. Between 2000 and 2003, the City of Newport Public Works Department developed a wastewater treatment facility located outside of the study area and adjacent to the northwest boundary. Within the study area, Public Works developed a treatment pond (Wetland 15) in the northwest corner of the study area and clear-cut a large area for surface application of treated wastewater effluent.

- *Study Area 4:* Between 1994 and 2000, the eastern portion of Study Area 4 was clear-cut. Several access roads and staging areas were also constructed within the study area during this time.
- *Study Areas 5, 6, 7, and 9:* Between 1994 and 2019, these four study areas have remained relatively unchanged.
- *Study Area 8 and 10:* Clear-cutting in these two study areas did not appear to have an impact on wetland boundaries. Between 2003 and 2005, all of Study Area 8 and the northeastern portion of Study Area 10 were clear-cut. Several access roads and staging areas were also constructed within the Study Area 10 during this time. The clear-cutting activity removed most of the area's vegetated cover, and a network of access roads was constructed. All areas of natural land cover in the clear-cut areas were significantly altered.
 - In 2005, a municipal water treatment facility and its associated access roads and staging facilities were built in the southwestern portion of Study Area 10. The construction of this facility resulted in the clearing of most vegetation and extensive grading to level the area.
 - Between 2014 and 2019, the southeastern portion of Study Area 10 was clear-cut. The clear-cutting activity removed most of the area's vegetated cover, and a network of access roads was constructed. All areas of natural land cover in the clear-cut areas were significantly altered.

C) PRECIPITATION DATA AND ANALYSIS

The climate of the water resource delineation study areas is characterized by cold, wet winters and cool, dry summers. Typical annual precipitation ranges between 71.21 and 130.29 inches, and average annual air temperature is 51.4 degrees Fahrenheit (USDA 2019).

Historic precipitation information was available from the WETS Station OTIS 2 NE, Oregon. Based on this station's records from 1987 to 2018, the growing season is February 1 through December 24, at the 50 percent interval (USDA 2019). Observations during the field survey/investigation suggested that the growing season had begun about 1 month before the field survey; herbs and shrubs were flowering and new growth on trees was apparent in the survey area vicinity.

The water resource delineation was conducted during two separate field surveys, May and September 2019. A second field visit was conducted because additional land owner permission was granted. Recorded precipitation for each field survey is described below.

The recorded precipitation for the Water Year (October 1, 2018 – date of survey) was within the normal range for both field surveys (**Table 1** and **Table 2**). Recorded precipitation for the 3 months before the May field investigation totaled 27.05 inches, which was 2.51 inches below average for that interval but within the normal range (USDA 2019) (**Table 1**). Precipitation for February, 3 months before the fieldwork, was 10.8 percent above average and within the normal range. Precipitation for March, 2 months before the fieldwork, was more than 60 percent below average and was not within the normal range. Precipitation for April, the month before the fieldwork, was more than 30 percent above average and was not within the normal range. All precipitation that fell during this 3-month period was rain.

Ambient temperatures during the survey were about average, ranging from the mid-50s to mid-60s Fahrenheit.

Table 1. Summary of Precipitation for Newport, Oregon (inches) – May Field Survey

Time Interval	Recorded Precipitation	WETS			Within Normal Range?
		Average	30% Chance Less	30% Chance More	
Oct. 2018–May 2019	68.85	87.20	61.30	103.36	Yes
Three Months before May field survey					
April 2019	11.15	8.13	5.92	9.2	No (above normal)
March 2019	3.95	10.95	8.16	13.21	No (below normal)
February 2019	11.95	10.48	7.05	12.24	Yes
Totals	27.05	29.56	21.13	34.93	Yes
Two weeks before May field survey					
May 28–31, 2019	2.57	–	–	–	–
During May field survey					
May 27–31	0	–	–	–	–

Notes: Wetland (WETS) Climate Tables.

Source: USDA 2019.

Recorded precipitation for the 3 months before the September field investigation totaled 3.37 inches, which was 2.53 inches below average for that interval but within the normal range (USDA 2019) (**Table 2**). Precipitation for June, 3 months before the fieldwork, was more than 50 percent below average and not within normal range. Precipitation for July, 2 months before the fieldwork, was 18 percent above average and was within the normal

range. Precipitation for August, the month before the fieldwork, was more than 55 percent below average and was not within the normal range. All precipitation that fell during this 3-month period was rain.

Ambient temperatures during the survey were about average, ranging from the high-40s to mid-70s Fahrenheit.

Table 2. Summary of Precipitation for Newport, Oregon (inches) – September Field Survey

Time Interval	Recorded Precipitation	WETS			Within Normal Range?
		Average	30% Chance Less	30% Chance More	
Oct. 2018– Aug. 2019	74.44	94.3	65.59	111.94	Yes
Three Months before field survey					
August 2019	0.62	1.5	0.63	1.82	No (below normal)
July 2019	1.23	1.04	0.44	1.21	Yes
June 2019	1.52	3.39	2.30	4.06	No (below normal)
Totals	3.37	5.90	3.37	7.09	Yes
Two weeks before field survey					
Sept. 8 - 22, 2019	0.28	–	–	–	–
During September field survey					
Sept. 23 - 26	0	–	–	–	–

D) METHODS

Literature Review

The following resources were reviewed and analyzed to aid in the identification of wetlands and other waters in the ten water resource delineation study areas:

- Soil Map for Lincoln County, Oregon, acquired from the Web Soil Survey, National Cooperative Soil Survey (NRCS-USDA 2019).
- Lists of Hydric Soils, National List, all states (NRCS-USDA 2019).
- National Wetlands Inventory (NWI) map from Oregon Explorer (2019).
- Draft Local Wetlands Inventory, City of Newport (2012).
- Precipitation Data and Climate Analysis for Wetlands, Wetland (WETS) Climate Tables Station: Oregon City (USDA 2019).
- Aerial imagery from 1994 to 2017 (Google Earth 2019) for land use history analysis.

- Aerial imagery from Esri World Imagery Map (Esri 2019).
- Topographic contours (Oregon Lidar Consortium LiDAR 2019).
- Stream and lake polygons and tax parcels (Lincoln County 2019).
- Roads (Lincoln County 2019).
- Plant identification references: Hitchcock and Cronquist (1976), Pojar and MacKinnon (2004), Cooke (1997); and Lichvar et al. (2016).

Field Investigations

Before the start of field investigations, available resources were reviewed and a list of potential wetland characteristics was compiled. The list included soil descriptions and locations of hydric soil types, if present; mapped water resources, if present; features on aerial images suggesting the presence of water resources; and topographic depressions and other low areas indicating geomorphic position.

Environmental Science Associates (ESA) staff members conducted two water resource investigations in the field on May 27–31, 2019 and September 23–26, 2019, following routine wetland delineation methods defined in the U.S. Army Corps of Engineers (Corps) *Wetlands Delineation Manual* (Environmental Laboratory 1987) and *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Region* (Corps 2010).

Site-specific methods for delineating water resources included establishing paired plots at potential wetland sites and in adjoining uplands throughout the ten water resource delineation study areas to ensure the full sampling coverage of representative areas. Sample plots were strategically placed in areas mapped as wetland by the NWI or the draft Local Wetlands Inventory (LWI), and in areas with mapped hydric soils. Any other areas exhibiting wetland characteristics were also sampled. Additionally, informal sample plots and observations were recorded in the field to verify site conditions, wetland boundaries, or describe natural resources in the vicinity. Early-summer-season hydrology, growing conditions, and soil temperatures were present during the first survey, and late-summer conditions were observed during the second survey. Hydrology, growing conditions, and soil temperatures were all considered in the interpretation of field observations.

The ordinary high water line (OHWL) of streams was determined in the field in accordance with current Department of State Lands (DSL) and Corps stream delineation methodology. Field indicators of OHWL recognized by DSL include the following:

- 1) Clear, natural line impressed on the shore, including scour, shelving, and exposed roots.
- 2) Change in plant community from riparian (e.g., willows) to upland (e.g., oak, fir) dominated.

- 3) Textural change of depositional sediment or changes in the character of the soil (e.g., from sand, sand and cobble, cobble and gravel to upland soils).
- 4) Elevation below which no fine debris (needles, leaves, cones, seeds, soil organic matter) occurs.
- 5) Presence of water-borne litter and debris, wrack accumulation, water-stained leaves, water lines on tree trunks, flattened vegetation. Certain farming practices can obscure these indicators.

Corps regulations define OHWL or the “ordinary high water mark” for purposes of the Clean Water Act lateral jurisdiction at 33 Code of Federal Regulations (CFR) 328.3(c), which states: “The term *ordinary high water mark* means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.”

Field sampling was performed by Professional Wetland Scientist Jeff Barna and wetland biologist Luke Johnson during the May survey, and by Luke Johnson and wetland biologist Amanda Brophy during the second survey.

Soil Analysis

Eight soil types are mapped by the Web Soil Mapper in the ten study areas (**Appendix A**, Figure 4) (NRCS-USDA 2019) (**Table 3**). All soils are native and share their origin from Pacific Ocean marine deposits or the Coast Ranges. The study areas are located primarily on marine terraces and hillslopes, with small portions of Study Areas 2, 3 and 4 located on floodplains.

The eight mapped soil types in the water resource delineation study areas are a mix of textures:

- Bandon fine sandy loam (3E) is a well-drained sandy-gravelly loam.
- Brenner silt loam (9A) is a poorly drained fine silty clay loam.
- Fendall-Templeton silt loam (18G) is a well-drained, fine, and mixed silt loam.
- Lint silt loam (35E) is a well-drained and medial mix of slightly decomposed plant material and silt loam.
- The two types of Nelscott loams (42C and 42E) in the water resource delineation study areas are a moderately well-drained fine loamy loam.
- The Urban Land-Nelscott complex (59C) is also a moderately well-drained fine loamy loam in areas that are not developed.
- Yaquina fine sand (67A) is a somewhat poorly drained fine sand.

Fill material, which was introduced during the development of the Airport, roads, and other structures, was observed throughout the water resource delineation study areas for the ten study areas.

Table 3. Mapped Soil Units in the Water Resource Delineation Study Areas

Map Unit Symbol	Map Unit Name	Percent of Study Areas 1–10	Component Landform	Hydric Soil?	% Hydric Inclusions
3E	Bandon fine sandy loam, 12 to 50 percent slopes	0.0% (0.1 acre)	Marine terraces	No	0%
9A	Brenner silt loam, 0 to 2 percent slopes	0.0% (0.2 acre)	Floodplains	Yes	0%
18G	Fendall-Templeton silt loams, 35 to 60 percent slopes	0.2% (1.3 acres)	Hillslopes	No	0%
35E	Lint silt loam	11.7% (61.1 acres)	Marine terraces	No	2%
42C	Nelscott loam, 3 to 12 percent slopes	39.8% (160.5 acres)	Marine terraces	No	0%
42E	Nelscott loam, 12 to 50 percent slopes	33.2% (173.3 acres)	Marine terraces	No	0%
59C	Urban Land-Nelscott complex, 0 to 12 percent slopes	2.2% (11.5 acres)	Marine terraces	No	5%
67A	Yaquina fine sand, 0 to 3 percent slopes	0.1% (0.5 acre)	Marine terraces	Yes	8%

Source: NRCS-USDA 2019.

E) DESCRIPTION OF ALL WETLANDS AND OTHER NON-WETLAND WATERS

Twenty-seven wetlands and thirteen stream segments were delineated during the two surveys. Stream segments are described in the sub-section below. Wetlands are numbered 1 through 30, however, Wetlands 1, 17, and 22 do not appear on the delineation maps because they have been combined with another wetland feature. One wetland was mapped in Study Area 1 (**Appendix A**, Figure 5B), six in Study Area 2 (Figure 5B and 5C), 13 in Study Area 3 (Figures 5C, 5D, and 5E), nine in Study Area 4 (Figure 5F and 5G), and one in Study Area 10 (Figure 5K). The wetlands documented in these five study areas can be organized generally into two categories: wetlands associated with floodplains, and wetlands within forested slopes or seeps. The six wetlands mapped in Study Area 2 (Wetlands 2, 9, 10, 11, 12, 13) were similar in vegetation structure and topography but differed in wetland criteria. The 13 wetlands documented in Study Area 3 (Wetlands 14 – 26) were similar in vegetation structure, topography, and condition. Similarly, the eight wetlands in Study Area 4 (Wetlands 27 – 29 and 30a – 30e) were similar in vegetation structure, topography, and condition, as they are all either within the floodplain of Moore Creek or spring-fed seeps situated along the same hillslope. The one wetland documented at Study Area 10 (Wetland 3) is within a steep drainage and is similar in topography to the seep wetlands found in Study Area 4; however, its vegetation structure is distinct.

Vegetation in all wetlands was determined to be hydrophytic. Wetland soils and hydrology were less consistent in significantly disturbed areas, but were generally also

present in wetlands. Uplands lacked hydric soils or wetland hydrology; however, hydrophytic plant communities were documented in several upland sample plots. **Appendix B** presents the wetland determination data forms completed for this delineation.

Table 4 (at the end of the report) summarizes delineated and likely jurisdictional water resources. The specific characteristics of each delineated water resource are described below.

Wetlands

Wetland 2 and 12

Wetlands 2 and 12 are palustrine emergent wetlands (Cowardin et al. 1979) situated within a ditch along the south side of an airport access road. Data sheets for Wetland 2 and Wetland 12 include wetland sample plot Sp08 and upland plot Sp09. Wetland 12 is located downslope of Wetland 2 within the same ditch system. Wetlands 2 and 12 are situated within the deepest portions of the ditch that runs the length of the access road, which is likely what contributes to the wetland hydrology. These features have a width of up to 20 feet. A steep seasonal drainage adjacent to Wetland 12 is a likely source of hydrology for this portion of the wetland. At the lateral mid-point and the lowest elevation of Wetland 12, there is a 2-foot diameter culvert that functions as an outlet for this feature. The vegetation is dominated by hydrophytic herbaceous species, such as common velvetgrass (*Holcus lanatus*, FAC) and soft rush (*Juncus effusus*, FACW) (**Appendix C**, Photo 3). Other plant species included skunk cabbage (*Lysichiton americanus*, OBL), common horsetail (*Equisetum arvense*, FAC), and thimbleberry seedlings (*Rubus parviflorus*, FACU). The boundaries of these wetlands were defined by the road bed and the adjacent steep hillslopes (**Appendix C**, Photo 4). The boundary above the ditch was established along a transition from a hydrophytic plant community to an upland plant community.

Soils within these wetlands were compacted roadfill. However, soils were assumed to be hydric based on wetland hydrology and hydrophytic plants. Wetland hydrology was present throughout as saturation and 4 inches of standing water.

Wetland 3

Wetland 3 is a palustrine emergent wetland (Cowardin et al. 1979) located within a steep drainage that has recently been clear-cut. At this location in the drainage, local topography has been leveled to an approximate 2 percent slope, and surface water has pooled behind the topographic break and large woody debris (**Appendix C**, Photo 5). The hydrogeomorphic classification for this wetland is depressional. Wetland hydrology indicators observed in Wetland 3 included 3 inches of ponded water, soil saturation, and a high water table. Dominant vegetation was skunk cabbage; other plant species included deer fern (*Blechnum spicant*, FAC), salal (*Gaultheria shallon*, FACU), chaparral

willowherb (*Epilobeum minutum*, FACU), and salmonberry seedlings (*Rubus spectabilis*, FAC).

Soils in wetland sample plot Sp11 were disturbed and were assumed to be hydric based on wetland hydrology and a hydrophytic plant community. The paired upland plot for this feature was Sp12.

The boundary of Wetland 3 was established along a topographic break that reflected a change in soils and hydrology indicators.

Wetlands 4, 5, 6, 7, and 8

Wetlands 4, 5, 6, 7, and 8 are a series of five parallel palustrine forested seep wetlands (Cowardin et al. 1979) situated in short and steep drainages that flow into the floodplain of a larger water resource feature outside of the water resource delineation study area. These features had steep valley walls and an average slope greater than 7 percent (**Appendix C**, Photos 9, 10, 11, 12, and 13). Few trees were established in these narrow wetlands; however, the upland banks were dominated by a dense canopy of old-growth western hemlock (*Tsuga heterophylla*, FACU) and Sitka spruce (*Picea stichensis*, FAC). An occasional shrub layer in these features included salmonberry. The herb stratum in these wetlands was dominated by skunk cabbage and, with the exception of Wetland 8 (Sp29), deer fern (**Appendix C**, Photo 13). Wetland hydrology in these features was indicated by two to three inches of surface water, as well as saturated soils and a water table to the soil surface.

Soils for Wetlands 4, 5, 6, 7, and 8 consisted of silt loam with some gravels and met the depleted matrix (F3) hydric soil indicator. Data sheets for Wetland 4 are wetland sample plot Sp20 and upland plot Sp21. Wetland 5 has wetland sample plot Sp22 and upland plot Sp23, Wetland 6 has wetland sample plot Sp25 and upland plot Sp24, Wetland 7 has wetland sample plot Sp27 and upland plot Sp26, and Wetland 8 has wetland sample plot Sp29 and upland plot Sp28.

Wetlands 9 and 10

Wetlands 9 and 10 are palustrine forested wetlands (Cowardin et al. 1979) that are similar in topography, vegetation structure, and condition. Both features are located within a sloped depression perched on a forested terrace. The depression of Wetland 10 is distinct, as it forms a bottleneck and slopes downhill. Wetlands 9 and 10 are shaded by the large western hemlocks located within the wetlands and on the upland banks. Dominant vegetation in these features includes a salmonberry shrub layer and an herbaceous layer of skunk cabbage and slough sedge (*Carex obnupta*, OBL) (**Appendix C**, Photos 17, 18, and 19).

Soils were saturated to the surface at the time of the May survey, and patches of ponded water as deep as 4 inches were distributed throughout both features. Soils had a hydrogen sulfide odor (A4), a depleted matrix (F3), and a silt loam texture. Wetland 9 resembles an

hourglass and occurs entirely within the study area, whereas Wetland 10 extends off-site. The wetland sample plot for Wetland 9 is Sp33 and the upland plot is Sp32. The wetland sample plot for Wetland 10 is Sp36 and the upland plot is Sp35.

Wetlands 11a, 11b, 11c, 11d, and 11e

Wetlands 11a, 11b, 11c, 11d, and 11e are parts of a large wetland complex associated with the floodplain and drainage tributaries of Henderson Creek. All of these features are located within the floodplain of Henderson Creek or an adjacent tributary drainage. These features include palustrine forested, scrub-shrub, and emergent wetlands (Cowardin et al. 1979). Wetland 11a is the only palustrine emergent wetland within this wetland complex (**Appendix C**, Photo 25). The topography of this wetland complex is defined by the floodplains and drainages associated with Henderson Creek (described below) and its tributaries. The boundaries of this wetland complex are generally at the toe of the valley walls. The forested portions of this wetland complex are dominated by red alder (*Alnus rubra*, FAC) within the floodplain (**Appendix C**, Photos 26 and 27). Dominant vegetation in scrub-shrub portions of this wetland complex includes Douglas spirea (*Spirea douglasii*, FACW), twinberry honeysuckle (*Lonicera involucrata*, FAC), red alder, and slough sedge. Other dominant species observed throughout the wetland complex include salmonberry and skunk cabbage.

Along the wetland boundaries, soils were saturated 5 inches below the surface at the time of the September survey. Soils had a hydrogen sulfide odor (A4), a depleted matrix (F3), and a silt loam texture. The wetland sample plot for the wetland complex is Sp136 and the upland plot is Sp137.

Wetlands 13

Wetland 13 is a palustrine scrub-shrub wetland (Cowardin et al. 1979) located within a depression that is separated from the Wetland 11a–e complex by a forest-access road. The concave depression that defines the wetland boundaries is constrained by steep valley walls on three sides. The northern wetland boundary is established by infill from the adjacent forest access road. Dominant plants within Wetland 13 include red alder, Pacific blackberry (*Rubus ursinus*, FACU), Himalayan blackberry (*Rubus armeniacus*, FAC), twinberry honeysuckle, and slough sedge. Soil surfaces were saturated at the time of the September survey, and patches of ponded water as deep as 6 inches were distributed throughout this feature (**Appendix C**, Photo 29). Soils had a depleted matrix (F3) and sandy loam texture with high organic content. The wetland sample plot for the wetland complex is Sp126 and the upland plot is Sp127.

Wetland 14

Wetland 14 is a palustrine forested wetland (Cowardin et al. 1979) located in the northwest portion of Study Area 3. Similar to Wetland 13, this feature is also separated from a larger floodplain feature by a forest-access road. The northern wetland boundary

is established by infill from the adjacent forest access road. Dominant vegetation includes Western hemlock, salmonberry, red huckleberry (*Vaccinium parvifolium*, FACU), skunk cabbage, and slough sedge (**Appendix C**, Photo 30). The dark silt loam soils had a hydrogen sulfide odor (A4). Hydrology indicators at the wetland sample plot Sp101 included soil saturation at 4 inches and a water table present at 7 inches. The upland sample plot for this feature is Sp102.

Wetland 15

Wetland 15 is a palustrine emergent wetland (Cowardin et al. 1979) located within a constructed stormwater/wastewater treatment pond. The wetland boundary is defined by the large berm that surrounds the perimeter of this feature (**Appendix C**, Photos 33 and 34). This wetland was sparsely vegetated with hairy cat's ear (*Hypochaeris radicata*, FACU). The first 6 inches of soil in this feature included a distinct fill material that seemed to function as a filter media. No surface hydrology was present at the time of survey in May. Soils met the redox dark surface (F6) hydric soils indicator and were saturated to a depth of 4 inches. The sample plot for this wetland is Sp103 and the upland plot is Sp104.

Wetland 16

Wetland 16 is a palustrine emergent wetland (Cowardin et al. 1979) located in a depression at the base of a steep drainage feature (**Appendix C**, Photo 53). The wetland is immediately upslope of a large concrete pad, which determines the southwest wetland boundary. Dominant vegetation in this feature included red alder, soft rush, and common horsetail. Soils were disturbed from a nearby sand stockpile and were a dark sandy loam with high organic content that contained a hydrogen sulfide odor (A4). Wetland hydrology indicators included surface water, water table, and saturation to the surface. Wetland sample plot is Sp138 and the upland plot is Sp139.

Note: There is no Wetland 17.

Wetland 18

Wetland 18 is a palustrine emergent wetland (Cowardin et al. 1979) within a concave swale that is located at the base of two slightly depressed drainages. The wetland boundary is marked at the toe of the sloped swale walls (**Appendix C**, Photo 36). Dominant vegetation includes red alder and slough sedge. Patches of common duckweed (*Lemna minor*, OBL) were observed throughout the wetland. Soils had a hydrogen sulfide odor (A4) and depleted matrix (F3). Hydrology indicators at the wetland sample plot Sp109 included soil saturation and water table at the surface. Surface water was observed at lower points within the feature. The upland sample plot for this feature is Sp110.

Wetlands 19 and 20

Wetlands 19 and 20 are palustrine forested wetlands (Cowardin et al. 1979) influenced by groundwater seeps with steep hillslopes. Both of these wetlands are upslope of the floodplain of Stream 4, described below. Wetland 19 is within a concave depression at the base of a steep drainage (**Appendix C**, Photo 39). Several groundwater seeps influence the hydrology of this feature. Located approximately 200 feet downstream of Wetland 19, Wetland 20 is a similar feature (**Appendix C**, Photo 38). Dominant vegetation in both features includes salmonberry and skunk cabbage. Wetland 19 also included deer fern and lady fern (*Athyrium cyclosorum*, FAC). Soils were a dark sandy loam and had a hydrogen sulfide odor (A4). At least 2 inches of surface water was present in patches throughout these features at the time of survey in September. The wetland sample plot for Wetland 19 is Sp115 and its upland plot is Sp114. The wetland sample plot for Wetland 20 is Sp112 and its upland plot is Sp113.

Wetlands 21a and 21b

Wetlands 21a and 21b are a palustrine forested wetland (Cowardin et al 1979) mapped within the floodplain of Henderson Creek that are connected by a 24-inch culvert under a farm-access road in the eastern portion of Study Area 3. This feature is confined to the north and south by steep valley walls. The eastern boundary of Wetland 21a and the western boundary of Wetland 21b are marked by the riprap and fill material that forms the road-bed for a north-south farm-access road. In the absence of this road, Wetlands 21a and 21b would likely be one continuous wetland feature. Dominant vegetation includes western hemlock, red alder, salmonberry, red huckleberry, skunk cabbage, and water parsley (*Oenanthe sarmentosa*, OBL). Soils were a silt loam with high organic content that had greasy texture and a hydrogen sulfide odor (A4). Soils were saturated to the surface, and ponded water was observed in the hummocky depressions throughout the feature (**Appendix C**, Photo 41). The wetland sample plot for this feature is Sp117B and the upland plot is Sp118.

Note: There is no Wetland 22.

Wetland 23

Wetland 23 is a palustrine emergent wetland (Cowardin et al. 1979) mapped within a concave swale at the mid-point of a gently sloped pasture (**Appendix C**, Photo 43). The swale appears to collect the stormwater drainage from convergent slopes located uphill. The wetland is confined by the 2- to 3-foot walls of the eroding swale feature. Dominant vegetation observed includes Himalayan blackberry, soft rush, common birds-foot trefoil (*Lotus corniculatus*, FAC), and common bent grass (*Agrostis capillaris*, FAC). Hydric soils in the feature were a silt loam and had a depleted matrix (F3). Hydrology was

indicated by oxidized rhizospheres along living roots (C3). Wetland sample plot is Sp120 and the upland plot is Sp121.

Wetland 24

Wetland 24 is a palustrine emergent wetland (Cowardin et al 1979) mapped within a drainage feature located at the downhill edge of a sloped pasture. This wetland is confined by steep valley slopes on the right and left banks. Surface hydrology is impounded by the embankment of a farm-access road and flows are routed through an 8-inch culvert (**Appendix C**, Photo 45). Wetland 24 is surrounded by an upland western hemlock forest; however, dominant vegetation within the wetland is red alder, salmonberry, slough sedge, and skunk cabbage. Soils were a silt loam that had greasy texture and a hydrogen sulfide odor (A4). Surface water depth ranges from the 1 inch at the perimeter to several feet at its deepest points. The wetland sample plot is Sp142 and the upland plot is Sp143.

Wetlands 25a, 25b, and 26

Wetlands 25a, 25b, and 26 are palustrine forested wetlands (Cowardin et al. 1979) mapped within a steep drainage feature that is bisected by a farm-access road. Wetlands 25a and 25b are one contiguous feature that is connected by an 8-inch culvert under a farm-access road (**Appendix C**, Photo 52). Wetland 26 is within the same drainage basin as Wetlands 25a and 25b; however, it is confined by the farm-access road and the toe of a steep. Wetland 26 resembles a roadside ditch but would likely be contiguous with Wetlands 25a and 25b in the absence of the farm-access road (**Appendix C**, Photos 47, 48, and 49). Dominant vegetation in both features was red alder, salal, and deer fern. Soils were a combination of mucky and loamy sand with a hydrogen sulfide odor (A4). Saturation was present at the surface throughout both wetlands, and Wetland 26 had surface water at the sample plot. The wetland sample plot for Wetland 25 is Sp122 and the upland plot is Sp123. The wetland sample plot for Wetland 26 is SP125 and the upland plot is 123.

Wetlands 27, 28, and 29

Wetlands 27, 28, and 29, are palustrine emergent and scrub-shrub wetlands (Cowardin et al. 1979) mapped within the floodplain of Moore Creek (**Appendix C**, Photos 57, 58, and 59). These three wetlands are similar in their proximity, likely formation, and structure. Each feature is confined by the very steep valley walls on each bank and has been influenced by historic beaver activity. Wetland 27 has most recently been influenced by an inactive beaver dam located at its southwestern boundary. Dominant vegetation in Wetland 27 included slough sedge, common duckweed, and false Solomon's seal (*Maianthemum racemosum*, FAC). Other plants observed include lady fern and water parsley. Wetland 29 was distinctively the least influenced by beaver activity of these

three wetlands; however, occasional beaver chew was observed throughout. Dominant vegetation in Wetland 27 included willow (*Salix* sp., FAC), red alder, and slough sedge. Wetland 29 was historically influenced by beaver activity, but this feature was transitioning to a scrub-shrub habitat type. Young red alder trees were more prevalent in this feature than Wetland 27, where there were very few trees. Dominant vegetation in Wetland 29 included red alder and slough sedge. Soils in the three wetlands had a hydrogen sulfide odor (A4), and in Wetland 29 soils had redox dark surface (F6). Hydric soils in Wetlands 27 and 28 had a depleted matrix (F3). Soils were saturated to the surface in each feature. Wetland sample plot for Wetland 27 is Sp131 and the upland plot is Sp130. Wetland sample plot for Wetland 28 is Sp132 and the upland plot is Sp133. Wetland sample plot for Wetland 29 is Sp134 and the upland plot is 135.

Wetlands 30a, 30b, 30c, 30d, and 30e

Similar to the series of seep wetlands described above (Wetlands 4–8), Wetlands 30a, 30b, 30c, 30d, and 30e are a series of five parallel palustrine forested wetlands (Cowardin et al. 1979) situated in short, steep drainages that flow into the floodplain of Thiel Creek outside of the water resource delineation study area. These features had steep valley walls, water table present at the surface, and an average slope greater than 5 percent (**Appendix C**, Photos 60 and 61). Few trees were established in these narrow wetlands; however, the upland banks were dominated by a dense canopy of old-growth western hemlock and Douglas fir (*Pseudotsuga menziesii*, FACU) (**Appendix C**, Photo 60). An occasional shrub layer in these features included select salmonberry plants. The herb stratum in these wetlands was dominated by skunk cabbage and slough sedge (**Appendix C**, Photo 61). Wetland hydrology in this series of seeps was indicated by 1 to 2 inches of surface water, soil saturation, and a present water table. A typical soil profile for one of these wetlands was a dark matrix and a mix of sand and silt loams. Soils for Wetland 30a had high organic content throughout. Data sheets for the Wetland 30 series are wetland sample plot Sp128 and upland plot Sp129.

Other Non-wetland Waters

Henderson Creek

One section of Henderson Creek was mapped in Study Area 3 and one section was mapped in Study Area 2. The upstream portion, a 1,675-linear-foot section of Henderson Creek, flows from southeast to northwest through Study Area 3. This section is an average 3-foot wide stream channel that flows through an average 30-foot wide floodplain (**Appendix C**, Photo 42). The stream is routed through a 24-inch culvert under a farm-access road in the central-eastern portion of Study Area 3. This culvert likely causes impoundment during storm events. OHWL indicators observed in the field were drift deposits, vegetation breaks, and bankfull benches. The 1,600-linear-foot section of Henderson Creek in Study Area 2 is downstream of Study Area 3 and flows northeast to southwest through the study area. The average bankfull width of this section gradually

increases from 5 feet to 10 feet throughout its course. Approximately 100 feet downstream of its confluence with Stream 1 (described below), Henderson Creek is routed through a 24-inch culvert under the Airport access road. Within this reach, OHWL indicators observed were scour lines, changes in sediment, and changes in plant communities. In both sections, the valley walls are steep and the floodplain is densely vegetated with riparian shrubs.

Stream 1 – Unnamed Tributary to Henderson Creek

One 1,400-linear-foot section of Stream 1, an Unnamed Tributary to Henderson Creek that flows from southeast to northwest, is located in Study Area 3, and one 660-linear-foot section of Stream 1 is located in Study Area 2.

The channel and hydrology of the stream within Study Area 3 are significantly altered by roads, culverts, and impoundments. The headwaters channel of this stream, Wetland 16, has been altered by the development of the City of Newport Police shooting range and the associated access road. The small structures and fill material likely occupy the historic channel and floodplain. The 12-inch culvert and outlet from Wetland 16 marks the beginning of the existing stream channel. The bankfull width is 5 feet at this culvert outlet, and approximately 150 feet downstream the channel widens to a 15-foot average bankfull width. At this mid-section of the stream, the channel is densely vegetated and the banks are very steep, overgrown, and treacherous. The stream channel gradually widens downstream to 80 feet wide near a constructed impoundment at a farm-road crossing in the southwest corner of Study Area 3 (**Appendix C**, Photo 50). At this location, the stream is routed through a 24-inch culvert under a farm-access road and into a second impounded stream channel that with an average 20-foot bankfull width (**Appendix C**, Photo 51). The stream then routes through a 12-inch culvert under a second farm-access road and flows into a severely scoured drainage that has been stabilized with riprap and roadfill. Approximately 50 feet downstream of this second crossing, the stream channel develops stable banks with a 5-foot average bankfull width.

The free-flowing section of Stream 1 located in Study Area 2 has an average bankfull width of 10 feet and an average floodplain width of 60 feet. The vegetation within the floodplain is a very dense shrub layer that is confined by steep valley walls on each bank. This section flows into Henderson Creek within Study Area 2.

Streams 2 and 3

A 425-linear-foot section of Stream 2, a tributary to Stream 1, is mapped within the southwest quadrant of Study Area 3. This steep stream has a 3-foot average bankfull width. Stream 3 is a 650-linear-foot tributary to Stream 2 that is mapped within Study Area 3 (**Appendix C**, Photo 44 and 46). This stream has a bankfull width of 2 feet. OHWL indicators observed in the field were moss lines, scour line, and vegetation breaks.

Streams 4 and 8

A 650-linear-foot section of Stream 4 was mapped within the northeast quadrant of Study Area 3 (**Appendix C**, Photo 37). The channel of this steep stream is clogged with large woody debris throughout the delineated reach. OHWL indicators observed in the field were bankfull benches and moss lines. Approximately 1,000 feet north of Stream 4 in a parallel drainage, a 500-linear-foot section of Stream 8 was mapped in the northeast quadrant of Study Area 3 (**Appendix C**, Photo 32). Similar to Stream 4, the channel is fairly straight and is within a deep drainage clogged with large woody debris. OHWL indicators observed in the field were scour lines, changes in sediment, and changes in plant communities. Streams 4 and 8 are the only mapped streams within the ten study areas that discharge to Yaquina Bay.

Moore Creek and Stream 7

A 1,550-linear-foot section of Moore Creek, which flows from east to west, was mapped in the northern portion of Study Area 4. The average bankfull width of this headwater stream ranges from 10 to 18 feet, depending on the reach (**Appendix C**, Photo 57). Within Study Area 4, the floodplain of the stream is confined by steep and densely vegetated valley walls on each bank. Wetlands 27, 28, and 29 were delineated within the Moore Creek floodplain. Throughout the mapped stream length, the banks are steep, overgrown, and treacherous. The OHWL of the stream was delineated using field indicators such as scour line, changes in sediment, and changes in vegetation communities.

Stream 7 is a 60-linear foot and very steep channel mapped within Study Area 4 that flows into the Wetland 27, which is within the Moore Creek floodplain. The OHWL indicators observed in the field were scour line and exposed vegetation roots (**Appendix C**, Photo 56).

Streams 5 and 6 – Tributaries to Thiel Creek

Stream 5 is a 450-linear-foot section of an unnamed tributary to Thiel Creek with a 4-foot average bankfull width (**Appendix C**, Photo 60). Wetland 30a is associated with the floodplain of Stream 5. Stream 6 is a 150-linear-foot tributary to Stream 5 with a 2-foot average bankfull width (**Appendix C**, Photo 62). The OHWL indicators observed in the field were changes in sediment, observed scour line, and exposed vegetation roots.

F) DEVIATION FROM LWI OR NWI

Although wetlands were mapped in the vicinity of the survey area by the NWI, very few actually fell within the water resource delineation study areas (**Appendix A**, Figure 3A).

The wetlands mapped by NWI within Henderson Creek and Moore Creek were generally correct in their locations; however, the precise boundaries delineated in the field differed in some cases by as much as 75 feet. Streams were delineated in the field within the immediate vicinity of most locations where streams were mapped by the NWI. In all cases, the stream alignments delineated in the field deviated from the NWI mapped streams, in some cases by as much as 100 feet. Similarly, U.S. Geological Survey (USGS) National Hydrography Dataset (NHD) streams were mapped at several locations in Study Areas 2, 3, and 4. Streams were delineated within the immediate vicinity of all streams mapped by the NHD. However, the delineated stream alignments also deviated from the NHD mapped streams, in some cases by as much as 100 feet.

Three riverine wetlands are mapped by NWI within the southeastern portion of Study Area 10. These wetlands are mapped as narrow drainages flowing from east to west. This portion of the wetland delineation study area was recently clear-cut, and as a result, visibility was greater than 80 percent at the time of the survey. These mapped wetland areas were investigated at time of the survey, but no wetlands were observed in these areas.

ESA received a draft geospatial dataset of the City of Newport LWI (2012) from City staff on September 18, 2019. At the time of the September 2019 field survey, this draft dataset and its associated LWI report had not been approved by DSL. Several wetlands were mapped on the draft LWI throughout Study Areas 2, 3, and 4 (**Appendix A**, Figure 3B).

One emergent wetland is mapped by the draft LWI within NRCS mapped hydric soils in the southeast corner of Study Area 3. The mapped wetland is in the uphill reaches of a concave swale. Sample plot Sp116 is located in the lowest point of this swale feature. Dominant vegetation included red huckleberry, reed canary grass (*Phalaris arundinacea*, FACW), English plantain (*Plantago lanceolata*, FACU), common bent grass, and Himalayan blackberry. Vegetation was determined to be hydrophytic through the prevalence index test (Corps 2010). Soils were a disturbed mix of silt loam and sandy loam that had high chroma and value, and were not determined to be hydric. No primary hydrology indicators were observed at the time of the September survey.

One forested wetland is mapped by the draft LWI on a hillslope within the southern portion of Study Area 4. Most of this mapped feature was determined to be upland hemlock forest. This area had very little understory, and visibility was high within forest floor. Five seep wetlands (Wetlands 30a, 30b, 30c, 30d, and 30e) were delineated either within or adjacent to the mapped wetland; however, the precise boundaries differed by as much as 350 feet.

One forested wetland is mapped by the draft LWI in the northwest corner of Study Area 1. The mapped wetland is on a very steep slope adjacent to a mapped emergent wetland located outside of the study area. This area is steep, densely vegetated, and treacherous. However, the few areas that were observed within this mapped wetland were determined to be upland.

G) MAPPING METHOD

Spatial data (survey points and boundaries) were collected in the field using a Bad Elf GNSS Surveyor Bluetooth receiver with a tablet data collector capable of sub-meter accuracy. These data were collected using equipment capable of sub-meter mapping grade accuracy and were digitized in real time into geographic information system (GIS) shapefiles using ArcGIS version 10.4.1. Shapefiles were used to produce maps and identify spatial locations presented in this delineation report. All background layers, including the survey boundary, were georeferenced using North American Datum of 1983 State Plane, Oregon North, FIPS3601 (U.S. feet). Background imagery was sourced from Esri.

H) ADDITIONAL INFORMATION

Several small tributaries of the Pacific Ocean flow across the study areas and vicinity: Henderson Creek, Thiel Creek, and Moore Creek. Thiel Creek is located outside of the ten study areas and is the only stream mapped as critical habitat for federally listed Oregon Coast Steelhead and Coho Salmon (*73 Federal Register 7816*). Data from the Oregon Biodiversity Information Center (ORBIC) indicate that steelhead may be present in Henderson Creek (ORBIC 2019). This information is based on the best professional judgment of the Oregon Department of Fish and Wildlife (ODFW) District fisheries biologist. All streams mapped in the ten study areas would be considered Essential Fish Habitat (EFH) for Pacific Salmon under the Magnuson-Stevens Fisheries Conservation and Management Act, based on the accessibility (current or historic) of these waters to salmonids (Pacific Fishery Management Council 2014).

I) RESULTS AND CONCLUSIONS

A total of 7.28 acres of wetlands were delineated in the field using routine wetland delineation methods. In addition, OHWL was delineated for the 1.701 acres of ten streams identified. All water resources mapped by this delineation, except for three features, are completely contained within the wetland delineation study area. Table 4 summarizes each water resource.

Table 4. Summary of Water Resource Delineation

Study Area	Name	Acres	HGM Classification	Cowardin Class	Potentially Jurisdictional?
1	Wetland 11a	0.39	Slope	Palustrine emergent	Yes
	Wetland 11b	0.02	Riverine	Palustrine scrub-shrub	Yes
2	Wetland 10	0.20	Slope	Palustrine forested	Yes
	Wetland 11c	0.03	Riverine	Palustrine scrub-shrub	Yes
	Wetland 11d	0.07	Riverine	Palustrine scrub-shrub	Yes
	Wetland 11e	1.99	Riverine	Palustrine scrub-shrub/forested	Yes
	Wetland 12	0.16	Slope	Palustrine emergent	Yes
	Wetland 13	0.02	Riverine	Palustrine emergent	Yes
	Wetland 2	0.02	Slope	Palustrine emergent	Yes
	Wetland 9	0.04	Slope	Palustrine forested	Yes
	Henderson Creek	0.27	--	Riverine	Yes
	Stream 1	0.09	--	Riverine (same feature as listed below in Study Areas 3)	Yes
3	Wetland 14	0.24	Depressional	Palustrine forested	Yes
	Wetland 15	0.50	Depressional	Palustrine emergent	No
	Wetland 16	0.04	Slope	Palustrine emergent	Yes
	Wetland 18	0.06	Slope	Palustrine emergent	Yes
	Wetland 19	0.22	Slope	Palustrine forested	Yes
	Wetland 20	0.02	Slope	Palustrine forested	Yes
	Wetland 21a	0.28	Riverine	Palustrine forested	Yes
	Wetland 21b	0.20	Riverine	Palustrine forested	Yes
	Wetland 23	0.04	Depressional	Palustrine emergent	Yes
	Wetland 24	0.14	Slope	Palustrine forested	Yes
	Wetland 25a	0.16	Slope	Palustrine forested	Yes
	Wetland 25b	0.17	Riverine	Palustrine forested	Yes
	Wetland 26	0.02	Slope	Palustrine forested	Yes
	Wetland 4	0.03	Slope	Palustrine forested	Yes
	Wetland 5	0.06	Slope	Palustrine forested	Yes
	Wetland 6	0.04	Slope	Palustrine forested	Yes
	Wetland 7	0.08	Slope	Palustrine forested	Yes
	Wetland 8	0.14	Slope	Palustrine forested	Yes
	Henderson Creek	0.08	--	Riverine	Yes
	Stream 1	0.66	--	Riverine	Yes
Stream 2	0.04	--	Riverine	Yes	
Stream 3	0.03	--	Riverine	Yes	
Stream 4	0.05	--	Riverine	Yes	
Stream 8	0.05	--	Riverine	Yes	

Study Area	Name	Acres	HGM Classification	Cowardin Class	Potentially Jurisdictional?
4	Wetland 27	0.42	Riverine	Palustrine emergent	Yes
	Wetland 28	0.15	Riverine	Palustrine emergent/ scrub-shrub	Yes
	Wetland 29	0.89	Riverine	Palustrine emergent/ scrub-shrub	Yes
	Wetland 30a	0.13	Depressional	Palustrine forested	Yes
	Wetland 30b	0.09	Depressional	Palustrine forested	Yes
	Wetland 30c	0.07	Depressional	Palustrine forested	Yes
	Wetland 30d	0.04	Depressional	Palustrine forested	Yes
	Wetland 30e	0.05	Depressional	Palustrine forested	Yes
	Moore Creek	0.39	--	Riverine	Yes
	Stream 5	0.03	--	Riverine	Yes
	Stream 6	0.01	--	Riverine	Yes
Stream 7	0.001	--	Riverine	Yes	
10	Wetland 3	0.07	Depressional	Palustrine emergent	Yes
Total Wetlands		7.28			
Total OHWL		1.701			

Notes: HGM = hydrogeomorphic; OHWL = ordinary high-water level.

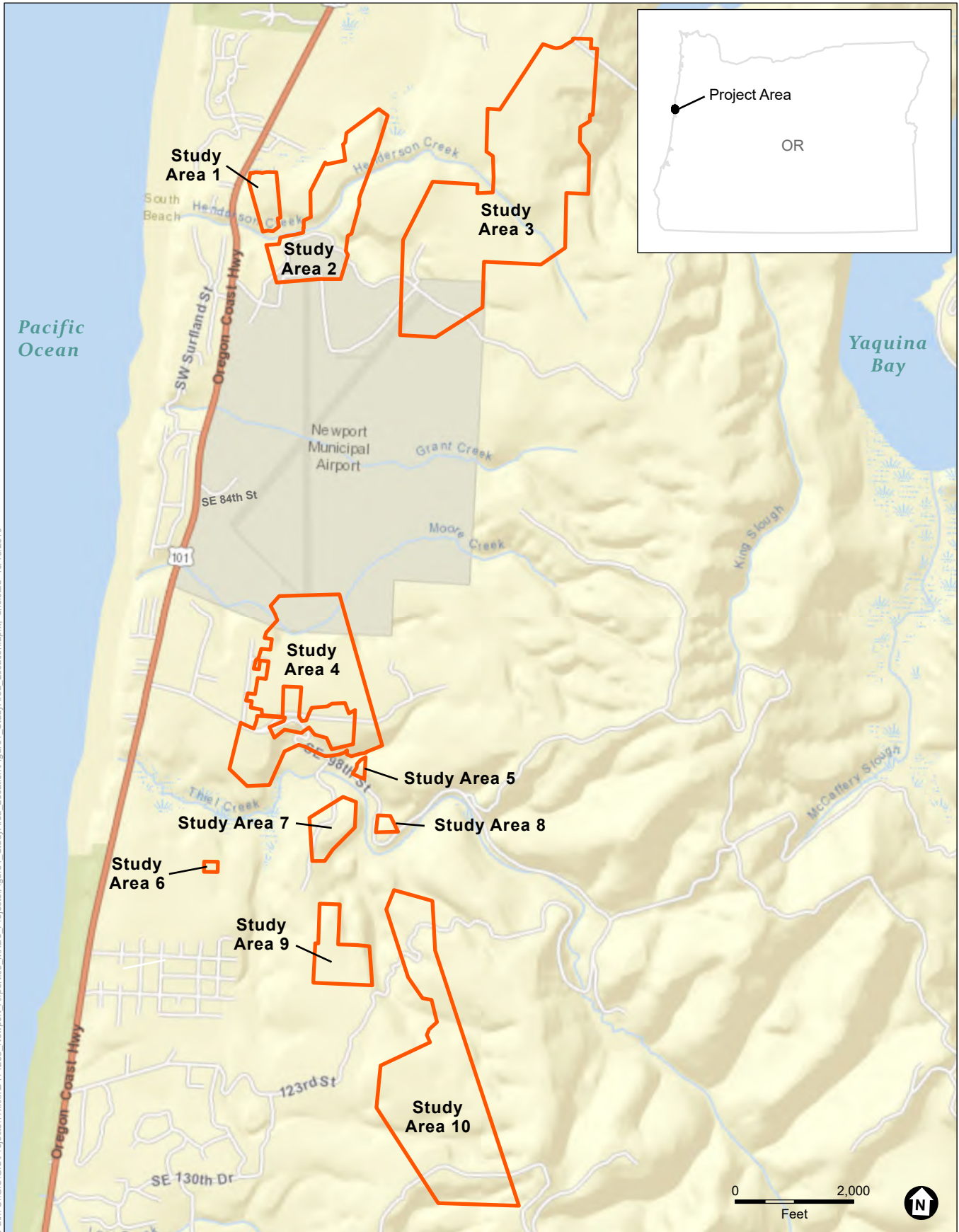
Source: Data compiled by Environmental Science Associates in 2019.

J) REQUIRED DISCLAIMER

This report documents the investigation, best professional judgment, and conclusions of the investigators. It should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been approved in writing by the reviewing agency/agencies.

APPENDIX A

Figure 1:	Study Area Location Map
Figure 2:	Tax Lot and Aerial Map
Figure 3A:	National Wetlands Inventory Map
Figure 3B:	Local Wetlands Inventory Map
Figure 4:	Soil Survey Map
Figure 5A:	Wetland Delineation Map Overview
Figure 5B-5K:	Wetland Delineation Map Detail (includes photo points and sample plots)

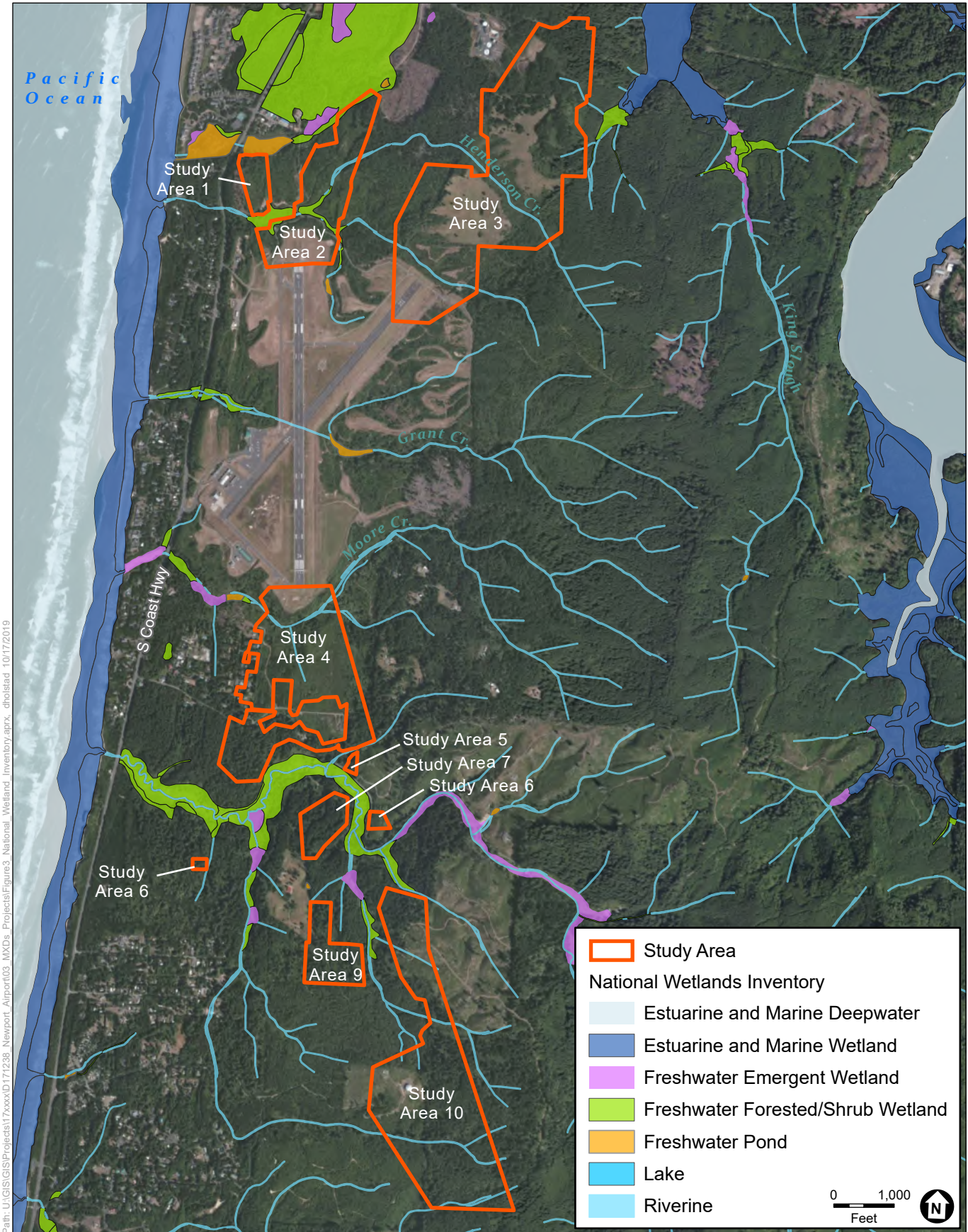


SOURCE: ESA, 2019; ESRI, 2017

D171238.00 Newport Airport EA

Figure 1
 Study Area Location Map
 Lincoln County, OR





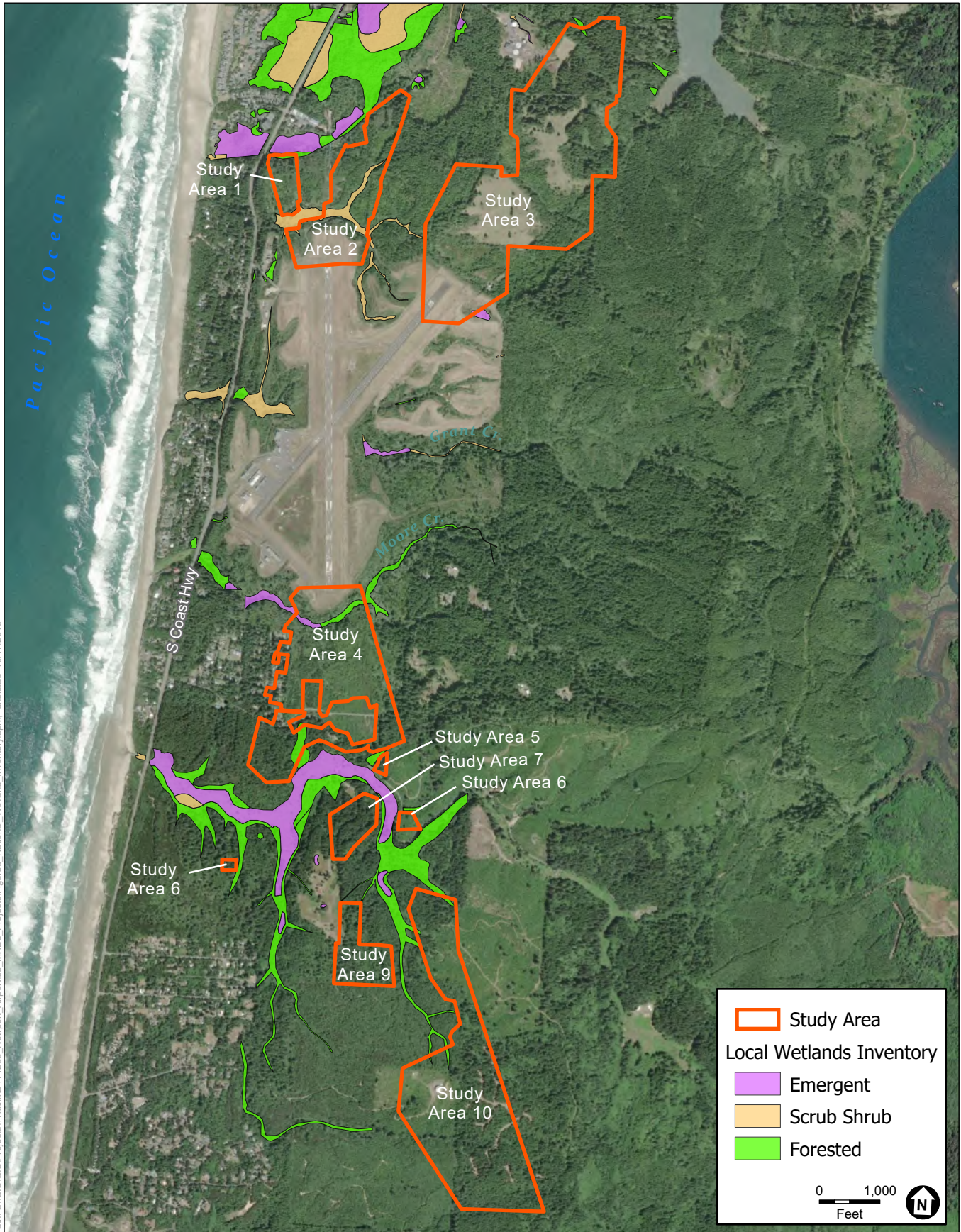
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SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; USFWS, 2017

D171238.00 Newport Airport EA

Figure 3A
National Wetlands Inventory Map
Lincoln County, OR





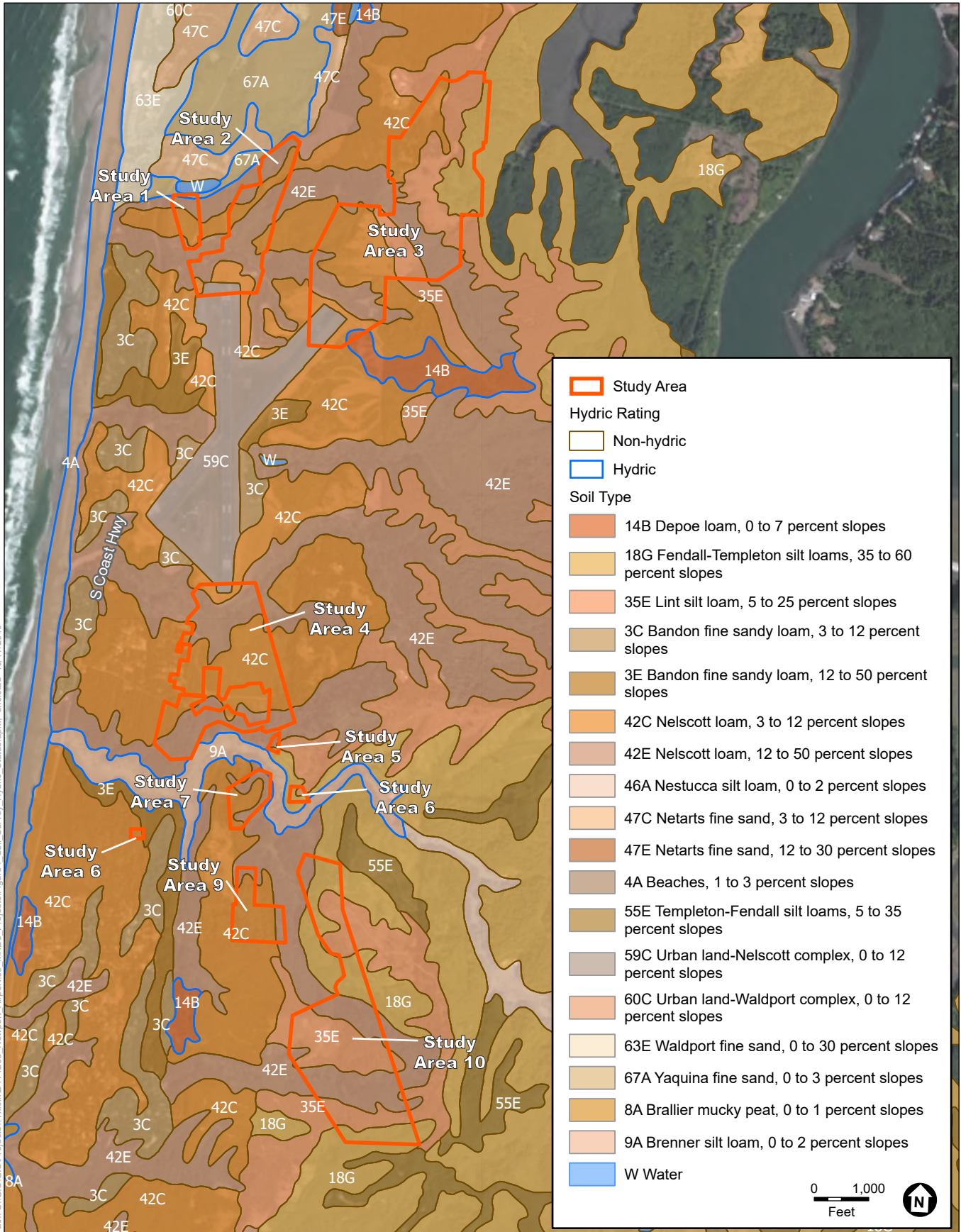
Path: U:\GIS\GISProjects\17xxxx\171238 Newport Airport\03_MXDs_Projects\Figure3_National_Wetland_Inventory.aprx_dhoistad_10/17/2019

SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; City of Newport, 2019

D171238.00 Newport Airport EA

Figure 3B
DRAFT Local Wetlands Inventory Map
Lincoln County, OR



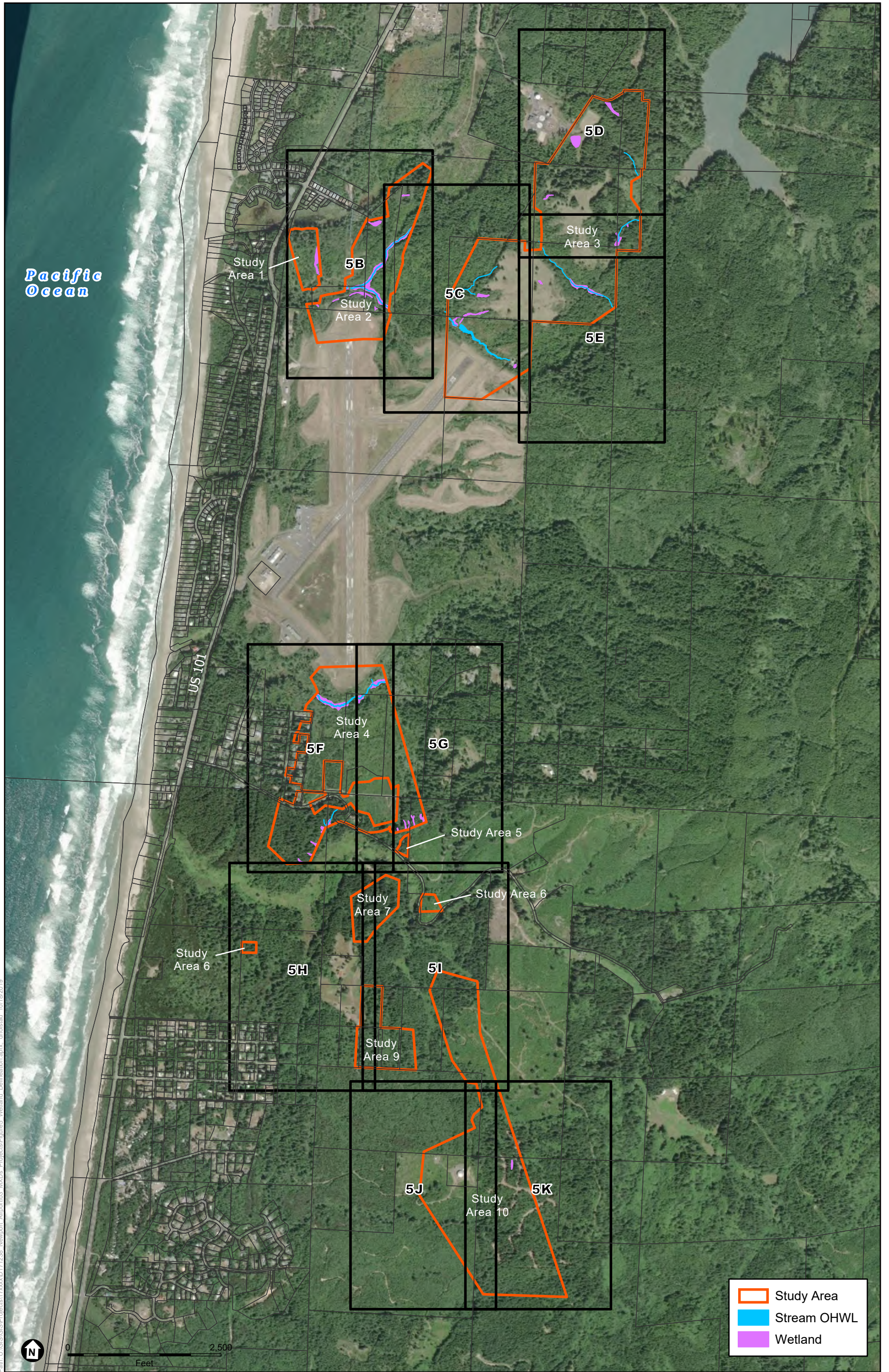


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; NRCS, 2017

D171238.00 Newport Airport EA

Figure 4
Soils Survey Map and Hydric Status Data
Lincoln County, OR



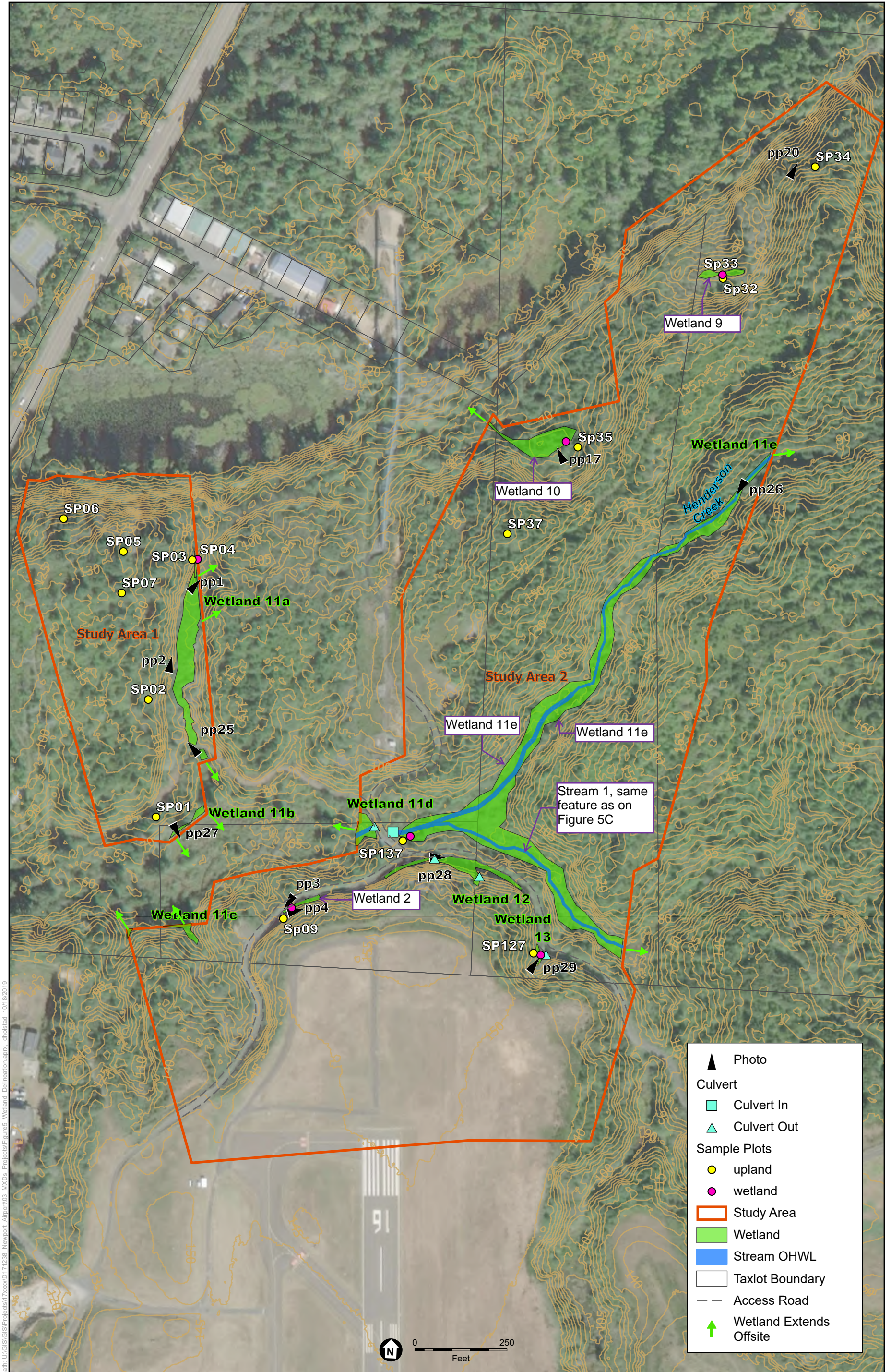


Path: U:\GIS\GIS\Projects\17xxxx\171238 Newport Airport\03 MXDs Projects\Figures5 Wetland Delineation.aprx chostad 10/18/2019

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; StreamNet, 2019; City of Newport, 2019.

D171238.00 Newport Airport EA

Figure 5A
Wetland Delineation Map
Lincoln County, OR



Path: U:\GIS\Projects\Trazco\171238 Newport Airport\03 MXDs\Projects\Figure5 Wetland Delineation.aprx, altstad - 10/13/2019

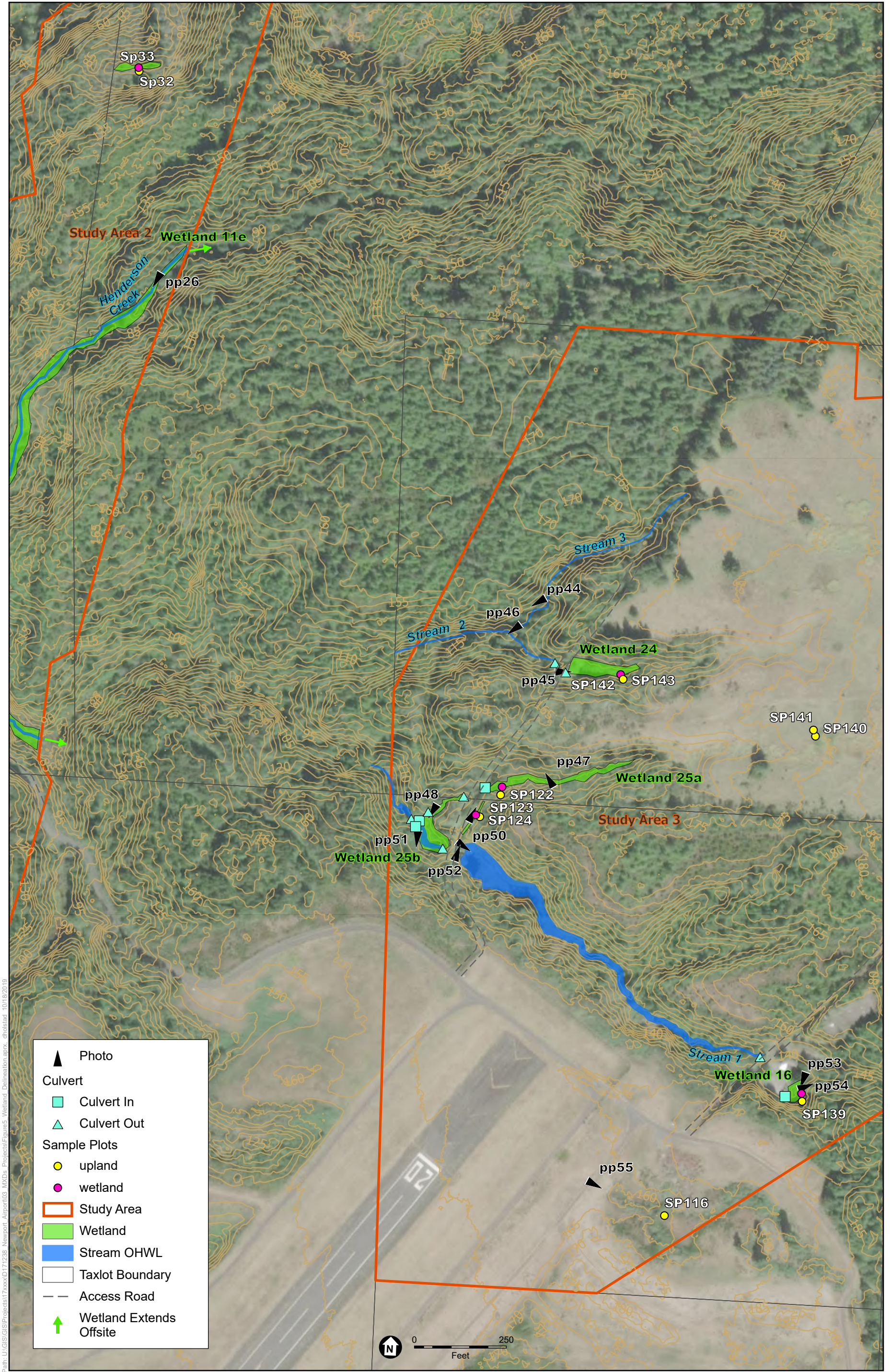
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5B
Wetland Delineation Map
Lincoln County, OR





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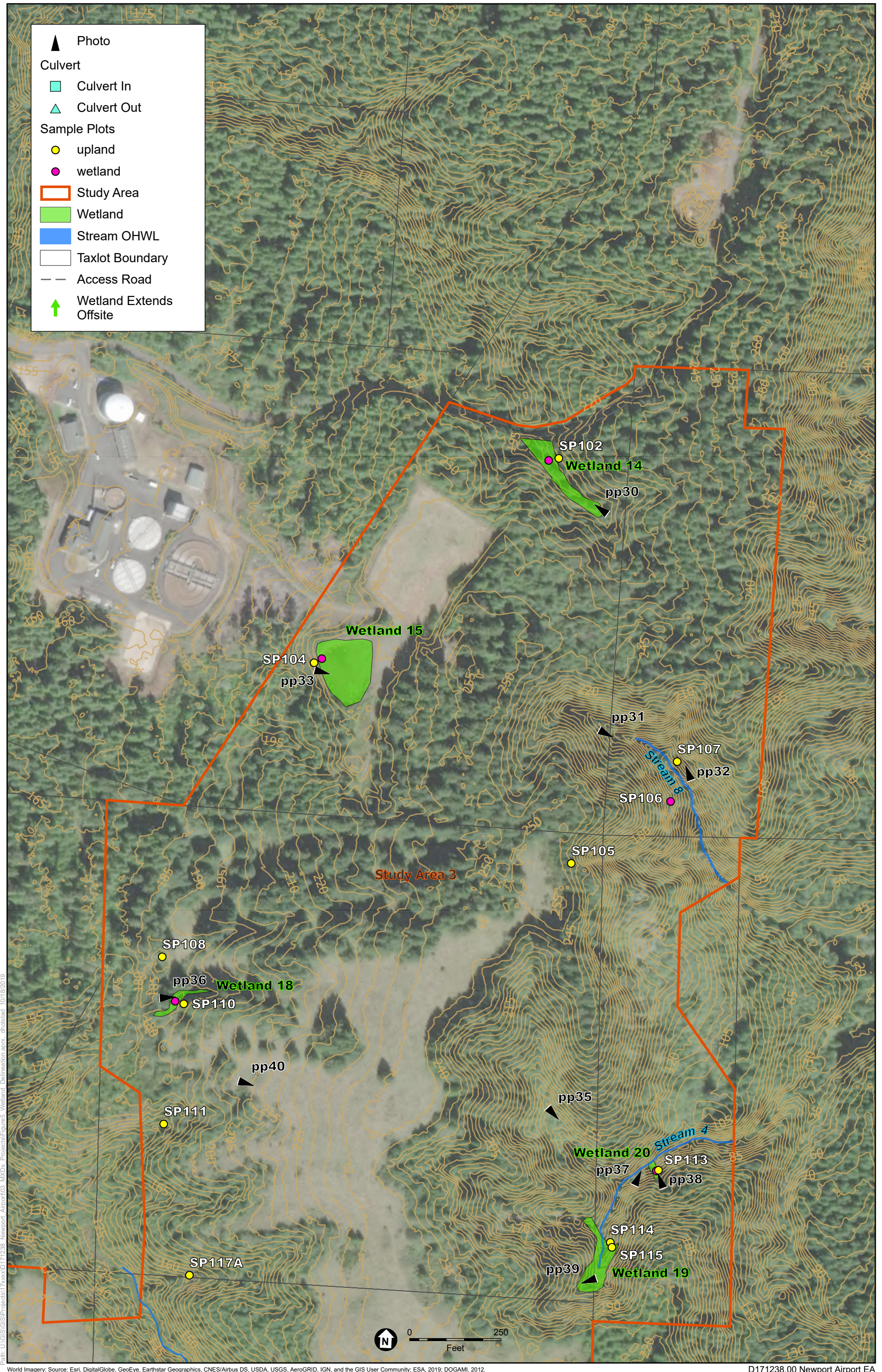
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5C
 Wetland Delineation Map
 Lincoln County, OR





Path: U:\GIS\Projects\Trazoo\171238 Newport Airport\103 MXDs\Projects\Figure5 Wetland Delineation.aprx_alkstad_10/13/2019

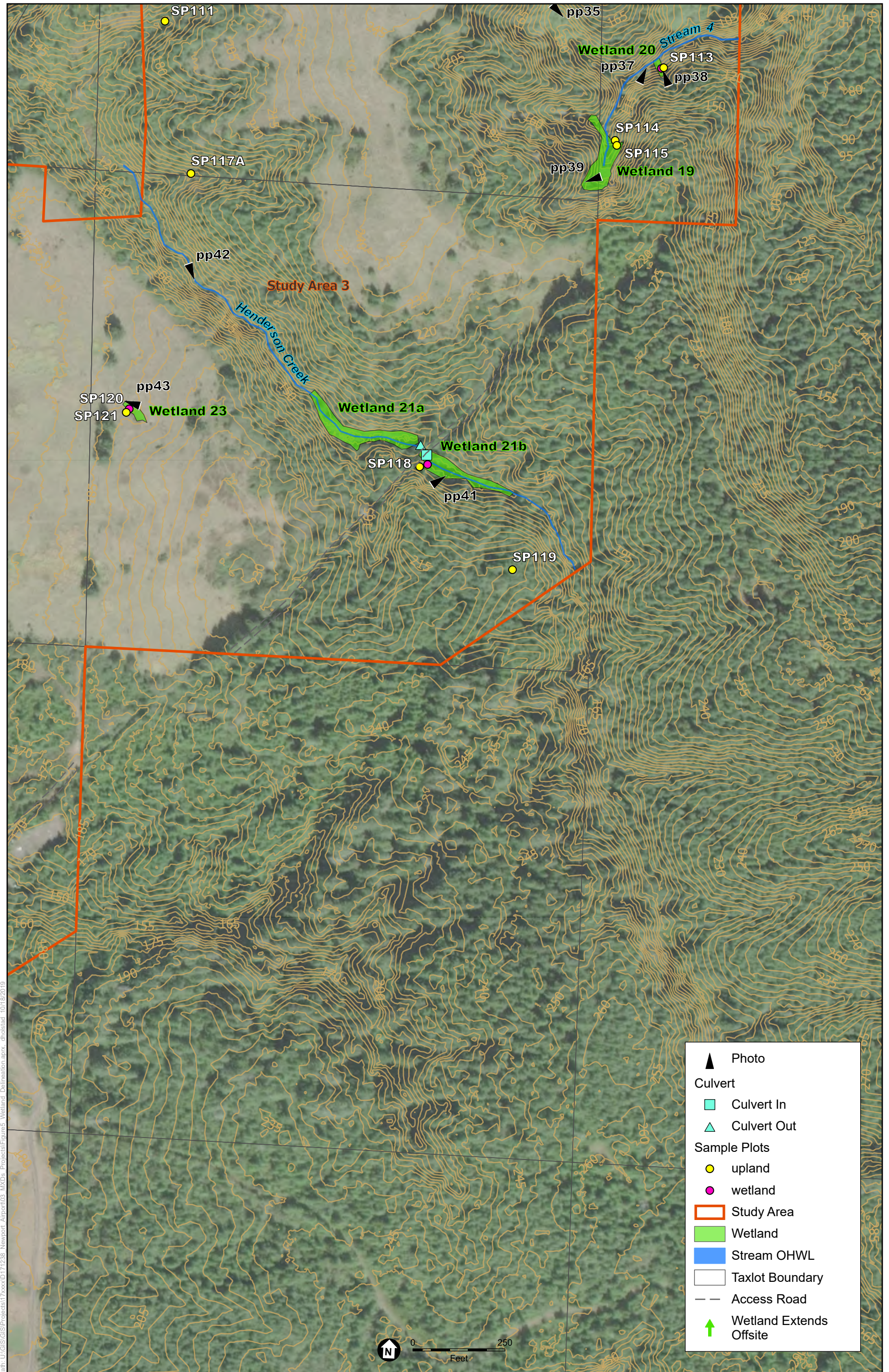
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5D
Wetland Delineation Map
Lincoln County, OR





Path: U:\GIS\GISProjects\Txxxx\171238 Newport Airport\03_MXD\Projects\Figure5 Wetland Delineation.aprx, altistatd_10/13/2019

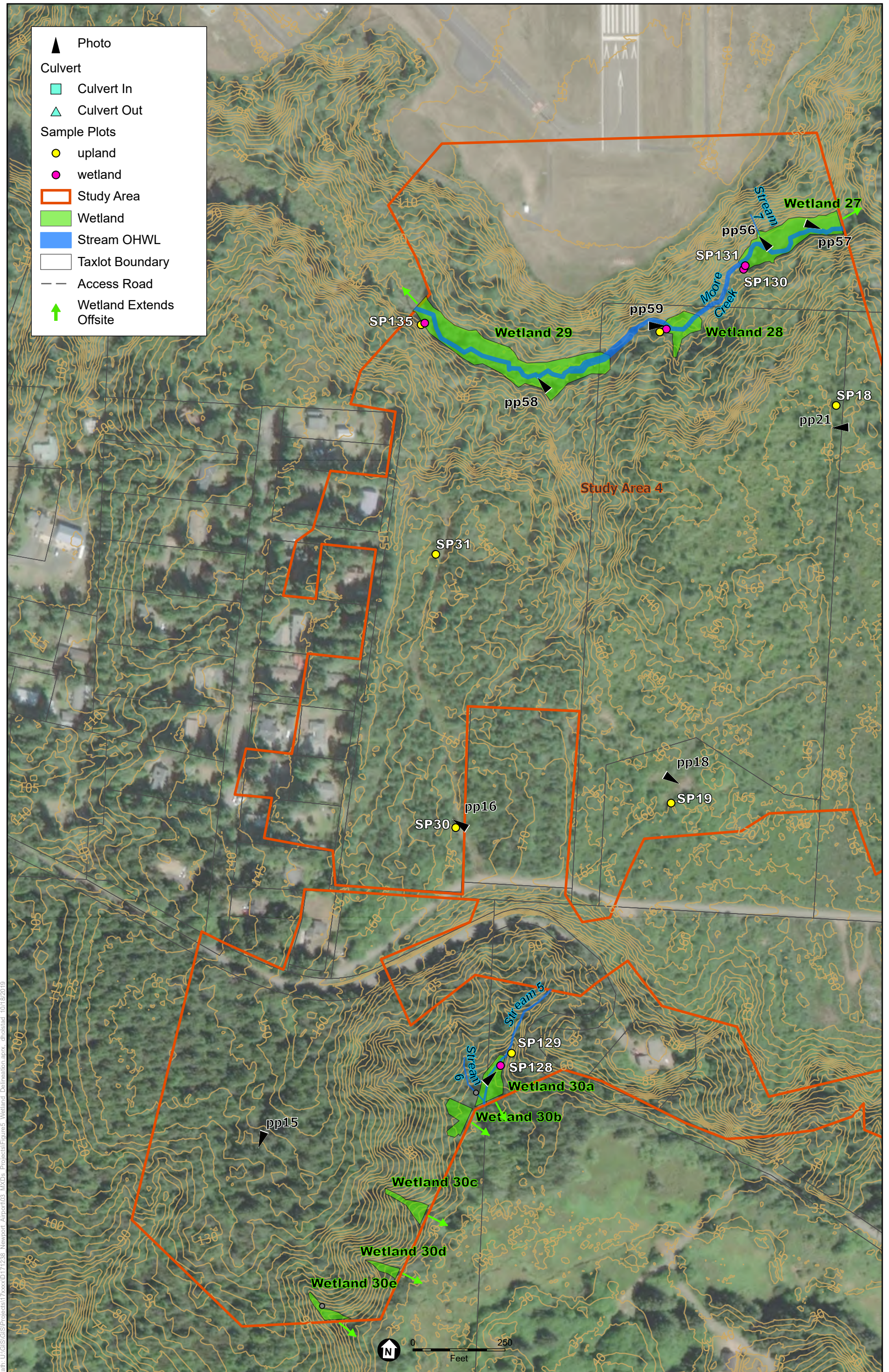
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5E
Wetland Delineation Map
Lincoln County, OR



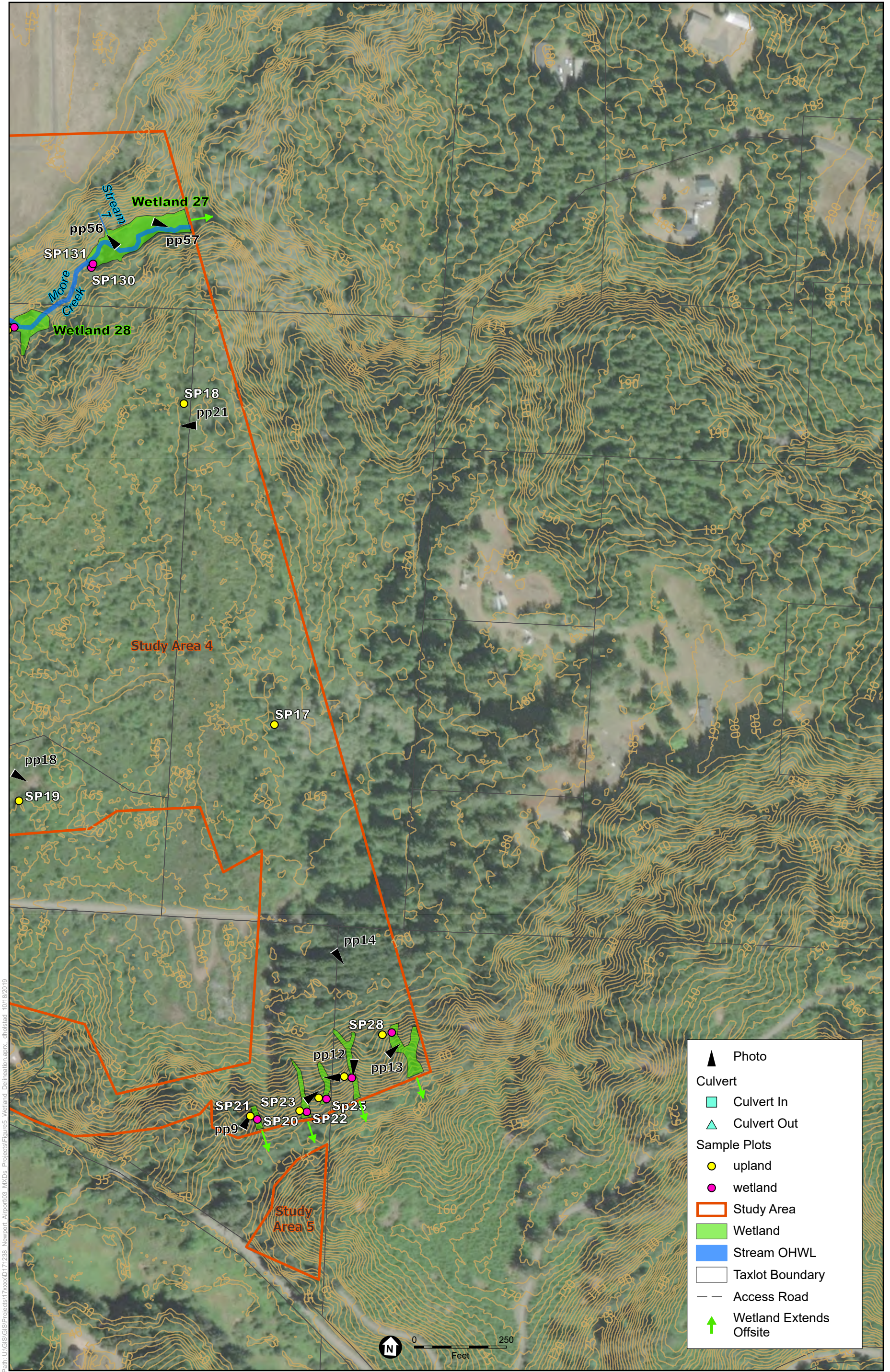


World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5F
Wetland Delineation Map
Lincoln County, OR



Path: U:\GIS\Projects\Trazco\171238 Newport Airport\03 MXDs\Projects\Figures\Wetland Delineation.aprx, altvised, 10/13/2019

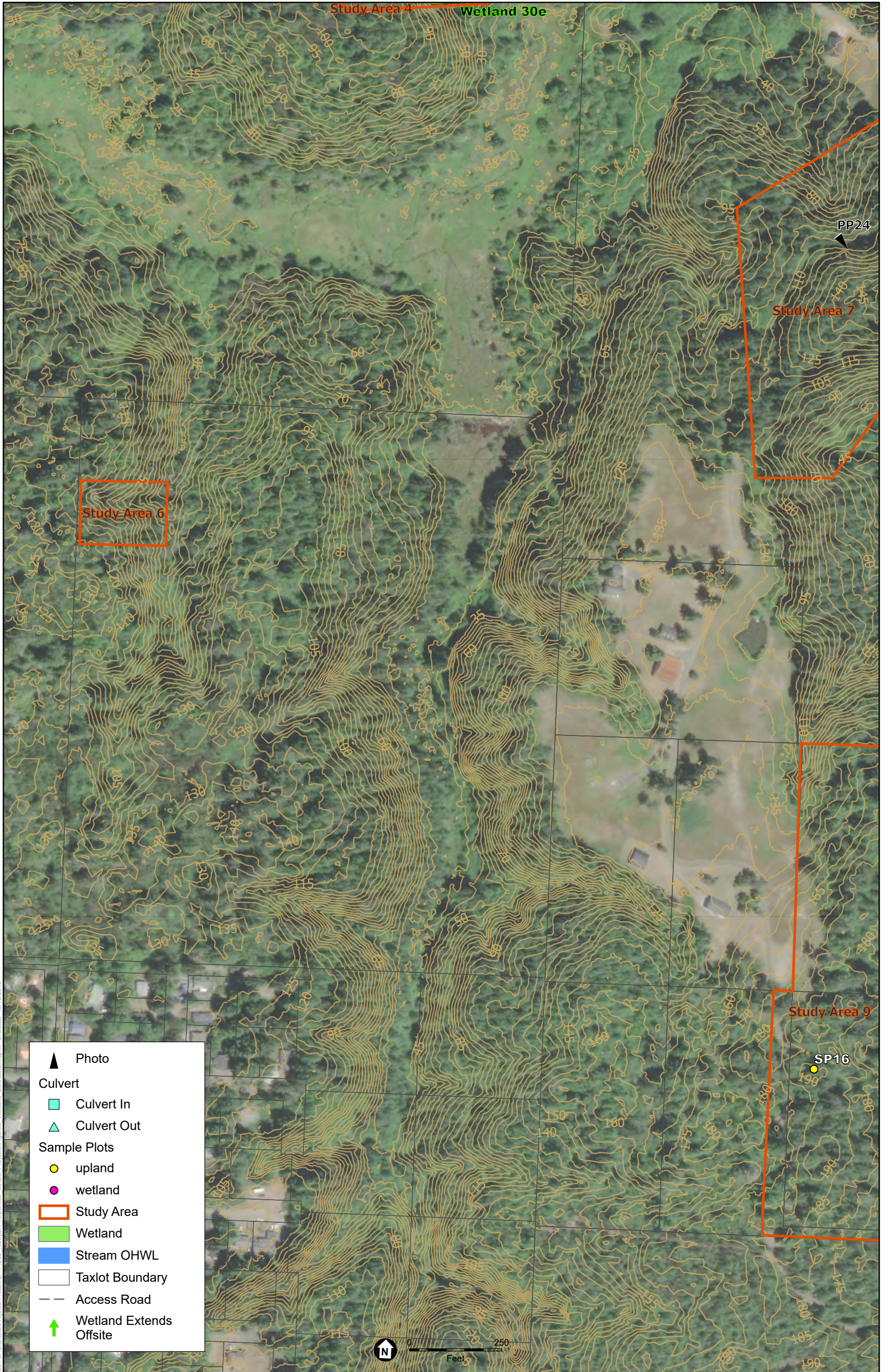
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5G
Wetland Delineation Map
Lincoln County, OR





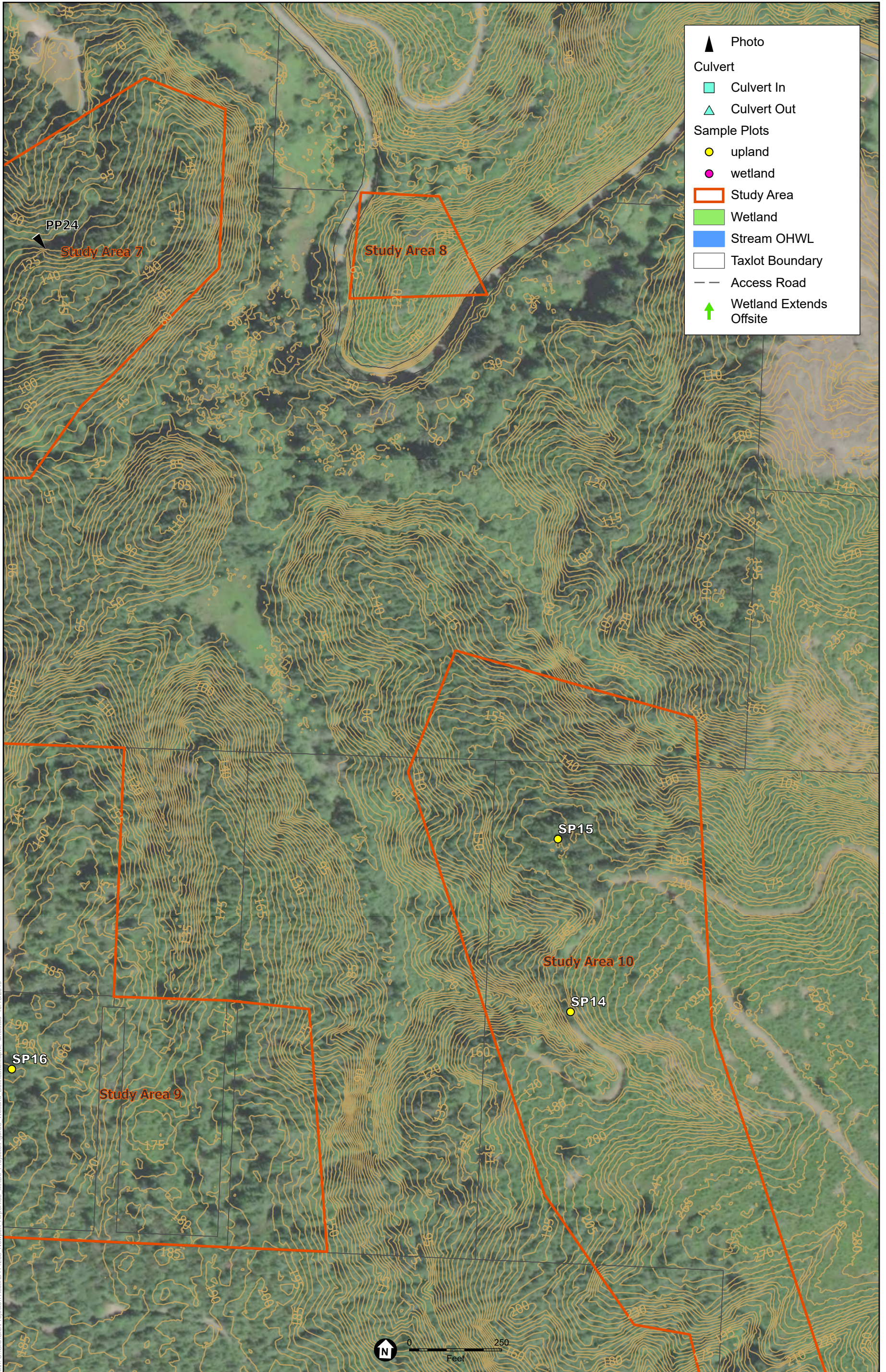
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World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5H
Wetland Delineation Map
Lincoln County, OR



Path: U:\GIS\Projects\Trazo\171238 Newport Airport\103 MXDs\Projects\Figure5 Wetland Delineation.aprx, altstad, 10/13/2019

World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 51
Wetland Delineation Map
Lincoln County, OR





Path: U:\GIS\Projects\Txxxx\171238 Newport Airport\03 MXDs Projects\Figure5 Wetland Delineation.aprx, altvised, 10/13/2019

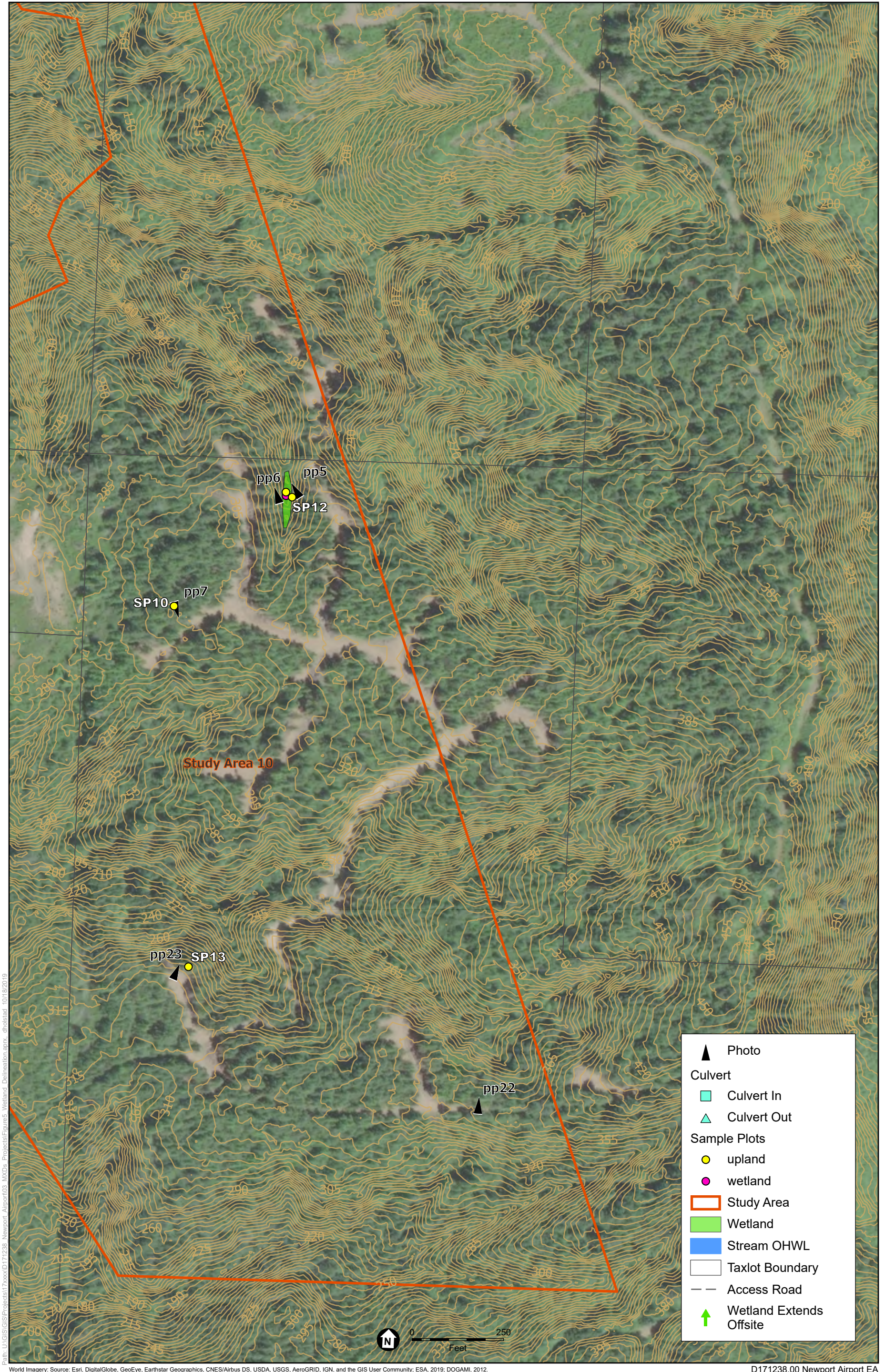
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5J
 Wetland Delineation Map
 Lincoln County, OR





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World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

D171238.00 Newport Airport EA

Accuracy Statement: Sample Points and wetland and waterway boundaries were flagged in the field and mapped using a Bad Elf GNSS surveyor bluetooth receiver and a tablet data collector (1m positional accuracy).

Figure 5K
Wetland Delineation Map
Lincoln County, OR



APPENDIX B

Datasheets

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP01
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): Slope Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.589106 Long: -124.061868 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: Near PSCC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Alnus rubra</u>	<u>50</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B)														
2. <u> </u>																		
3. <u> </u>																		
4. <u> </u>																		
5. <u> </u>																		
<u>50</u> = Total Cover																		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Vaccinium ovatum</u>	<u>5</u>		<u>FACU</u>	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>2</u></td> <td>x 1= <u>2</u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2= <u> </u></td> </tr> <tr> <td>FAC species <u>90</u></td> <td>x 3= <u>270</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4= <u>200</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5= <u>25</u></td> </tr> <tr> <td>Column Totals: <u>147</u> (A)</td> <td><u>497</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.38</u>	Total % Cover of:	Multiply by:	OBL species <u>2</u>	x 1= <u>2</u>	FACW species <u> </u>	x 2= <u> </u>	FAC species <u>90</u>	x 3= <u>270</u>	FACU species <u>50</u>	x 4= <u>200</u>	UPL species <u>5</u>	x 5= <u>25</u>	Column Totals: <u>147</u> (A)	<u>497</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>2</u>	x 1= <u>2</u>																	
FACW species <u> </u>	x 2= <u> </u>																	
FAC species <u>90</u>	x 3= <u>270</u>																	
FACU species <u>50</u>	x 4= <u>200</u>																	
UPL species <u>5</u>	x 5= <u>25</u>																	
Column Totals: <u>147</u> (A)	<u>497</u> (B)																	
2. <u>Sambucus racemosa</u>	<u>20</u>	<u>1</u>	<u>FACU</u>															
3. <u>Cytisus scoparius</u>	<u>5</u>		<u>NL</u>															
4. <u> </u>																		
5. <u> </u>																		
<u>30</u> = Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Carex obnupta</u>	<u>2</u>		<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Polystichum munitum</u>	<u>15</u>	<u>1</u>	<u>FACU</u>															
3. <u>Rubus parviflorus</u>	<u>10</u>		<u>FACU</u>															
4. <u>Rubus spectabilis</u>	<u>40</u>	<u>1</u>	<u>FAC</u>															
5. <u> </u>																		
6. <u> </u>																		
7. <u> </u>																		
8. <u> </u>																		
9. <u> </u>																		
10. <u> </u>																		
11. <u> </u>																		
<u>67</u> = Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus armeniacus</u>	<u>15</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>														
2. <u> </u>																		
<u>15</u> = Total Cover																		
% Bare Ground in Herb Stratum <u> </u>																		
Remarks: <u> </u>																		

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP02
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 5
 Subregion (LRR): A2 - Willamette Valley Lat: 44.459976 Long: -124.062003 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Picea sitchensis</u>	<u>15</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.00</u> (A/B)														
2. <u>Pinus contorta</u>	<u>35</u>	<u>1</u>	<u>FAC</u>															
3. <u> </u>																		
4. <u> </u>																		
<u>50</u> = Total Cover																		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus spectabilis</u>	<u>80</u>	<u>1</u>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>1</u></td> <td>x 1= <u>1</u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2= <u> </u></td> </tr> <tr> <td>FAC species <u>145</u></td> <td>x 3= <u>435</u></td> </tr> <tr> <td>FACU species <u>45</u></td> <td>x 4= <u>180</u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5= <u> </u></td> </tr> <tr> <td>Column Totals: <u>191</u> (A)</td> <td><u>616</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.23</u>	Total % Cover of:	Multiply by:	OBL species <u>1</u>	x 1= <u>1</u>	FACW species <u> </u>	x 2= <u> </u>	FAC species <u>145</u>	x 3= <u>435</u>	FACU species <u>45</u>	x 4= <u>180</u>	UPL species <u> </u>	x 5= <u> </u>	Column Totals: <u>191</u> (A)	<u>616</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>1</u>	x 1= <u>1</u>																	
FACW species <u> </u>	x 2= <u> </u>																	
FAC species <u>145</u>	x 3= <u>435</u>																	
FACU species <u>45</u>	x 4= <u>180</u>																	
UPL species <u> </u>	x 5= <u> </u>																	
Column Totals: <u>191</u> (A)	<u>616</u> (B)																	
2. <u>Gaultheria shallon</u>	<u>10</u>		<u>FACU</u>															
3. <u> </u>																		
4. <u> </u>																		
<u>90</u> = Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Carex obnupta</u>	<u>1</u>		<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Polystichum munitum</u>	<u>35</u>	<u>1</u>	<u>FACU</u>															
3. <u> </u>																		
4. <u> </u>																		
5. <u> </u>																		
6. <u> </u>																		
7. <u> </u>																		
8. <u> </u>																		
9. <u> </u>																		
10. <u> </u>																		
<u>36</u> = Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus armeniacus</u>	<u>15</u>	<u>1</u>	<u>FAC</u>															
2. <u> </u>																		
<u>15</u> = Total Cover																		
% Bare Ground in Herb Stratum <u> </u>				Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u>														
Remarks: <u> </u>																		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3	100					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>		
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>		
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP03
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591029 Long: -124.061608 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

<u>Iree Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Picea sitchensis</u>	<u>15</u>	<u>1</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. <u>Pinus contorta</u>	<u>35</u>	<u>1</u>	<u>FAC</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B)
4. <u> </u>				Prevalence Index worksheet:
5. <u> </u>	<u>50</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)				OBL species <u>1</u> x 1= <u>1</u>
1. <u>Rubus spectabilis</u>	<u>80</u>	<u>1</u>	<u>FAC</u>	FACW species <u> </u> x 2= <u> </u>
2. <u>Gaultheria shallon</u>	<u>10</u>		<u>FACU</u>	FAC species <u>145</u> x 3= <u>435</u>
3. <u> </u>				FACU species <u>45</u> x 4= <u>180</u>
4. <u> </u>				UPL species <u> </u> x 5= <u> </u>
5. <u> </u>	<u>90</u> = Total Cover			Column Totals: <u>191</u> (A) <u>616</u> (B)
Herb Stratum (Plot size: <u>5' R</u>)				Prevalence Index = B/A = <u>3.23</u>
1. <u>Carex obnupta</u>	<u>1</u>		<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Polystichum munitum</u>	<u>35</u>	<u>1</u>	<u>FACU</u>	
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
11. <u> </u>	<u>36</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30' R</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. <u>Rubus armeniacus</u>	<u>15</u>	<u>1</u>	<u>FAC</u>	
2. <u> </u>				
	<u>15</u> = Total Cover			
% Bare Ground in Herb Stratum <u> </u>				
Remarks: <u> </u>				

SOIL

Sampling Point: SP03

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3	100					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>		
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>		
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)		

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP04
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591034 Long: -124.061554 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: <u>wetland is on edge of compacted forest access road</u> <u>Soils not hydric. Layer with a dominant chroma of more than 2 must be less than 6 inches.</u> <u>Recorded precipitation in previous months was below normal range</u>	

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>30'</u> R)																				
1. <u>Alnus rubra</u>	<u>80</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>80</u> = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30'</u> R)																				
1. <u>Rubus spectabilis</u>	<u>10</u>		<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>75</u></td> <td>x 1= <u>75</u></td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species <u>105</u></td> <td>x 3= <u>315</u></td> </tr> <tr> <td>FACU species <u>11</u></td> <td>x 4= <u>44</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: <u>191</u> (A)</td> <td><u>434</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>2.27</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>75</u>	x 1= <u>75</u>	FACW species _____	x 2= _____	FAC species <u>105</u>	x 3= <u>315</u>	FACU species <u>11</u>	x 4= <u>44</u>	UPL species _____	x 5= _____	Column Totals: <u>191</u> (A)	<u>434</u> (B)	Prevalence Index = B/A = <u>2.27</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>75</u>	x 1= <u>75</u>																			
FACW species _____	x 2= _____																			
FAC species <u>105</u>	x 3= <u>315</u>																			
FACU species <u>11</u>	x 4= <u>44</u>																			
UPL species _____	x 5= _____																			
Column Totals: <u>191</u> (A)	<u>434</u> (B)																			
Prevalence Index = B/A = <u>2.27</u>																				
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>20</u> = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5'</u> R)																				
1. <u>Carex obnupta</u>	<u>75</u>	<u>1</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u>X</u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Athyrium cyclosorum</u>	<u>1</u>		<u>FAC</u>																	
3. <u>Polystichum munitum</u>	<u>1</u>		<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
<u>77</u> = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> R)																				
1. <u>Rubus armeniacus</u>	<u>15</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. _____	_____	_____	_____																	
<u>15</u> = Total Cover																				
% Bare Ground in Herb Stratum <u> </u>																				

Remarks: wetland is on edge of compacted forest access road

SOIL

Sampling Point: SP04

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10 YR 4/4	60	2.5 YR 4/6	40	C	M	Sand	
6-16	10 YR 4/1	90	10 Yr 4/6	10	C	M	Sandy Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input checked="" type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: Soils not hydric. Layer with a dominant chroma of more than 2 must be less than 6 inches.

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>12</u>	
(includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP05
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591068 Long: -124.062329 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Picea sitchensis</u>	15		FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. <u>Pinus contorta</u>	35	1	FAC	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B)
4. <u> </u>				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
5. <u> </u>	50 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Rubus spectabilis</u>	60	1	FAC	
2. <u>Gaultheria shallon</u>	10		FACU	Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
3. <u> </u>				
4. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
5. <u> </u>	70 = Total Cover			
Herb Stratum (Plot size: <u>5' R</u>)				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
1. <u>Athyrium cyclosum</u>	5	1	FAC	
2. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
3. <u> </u>				
4. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
5. <u> </u>				
6. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
7. <u> </u>				
8. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
9. <u> </u>				
10. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
11. <u> </u>	5 = Total Cover			
Woody Vine Stratum (Plot size: <u>30' R</u>)				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
1. <u>Rubus armeniacus</u>	15	1	FAC	
2. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
3. <u> </u>				
4. <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
5. <u> </u>	15 = Total Cover			
% Bare Ground in Herb Stratum <u> </u>				Hydrophytic Vegetation Indicators: Yes <u>x</u> No <u> </u> Present?
Remarks: <u> </u>				

SOIL

Sampling Point: SP05

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 2/2	100					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)
	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:	Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery(B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP06
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 2
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591293 Long: -124.062966 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.00</u> (A/B)
1. <u>Picea sitchensis</u>	<u>35</u>	<u>1</u>	<u>FAC</u>	
2. <u>Alnus rubra</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	
3. <u> </u>				
4. <u> </u>				
<u>45</u> = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Rubus spectabilis</u>	<u>50</u>	<u>1</u>	<u>FAC</u>	
2. <u>Gaultheria shallon</u>	<u>10</u>		<u>FACU</u>	
3. <u>Sambucus racemosa</u>	<u>30</u>	<u>1</u>	<u>FACU</u>	
4. <u> </u>				
5. <u> </u>				
<u>90</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)				
1. <u> </u>				
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
11. <u> </u>				
<u> </u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Rubus armeniacus</u>	<u>15</u>	<u>1</u>	<u>FAC</u>	
2. <u> </u>				
<u>15</u> = Total Cover				
% Bare Ground in Herb Stratum <u>100</u>				
Prevalence Index worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u>0</u>				
Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>				
Remarks: <u> </u>				

SOIL

Sampling Point: SP06

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 2/2	100					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks:

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP07
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.590759 Long: -124.062328 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>x</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>0 herbs</u>			
<u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Picea sitchensis</u>	<u>35</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B)														
2. <u>Pseudotsuga menziesii</u>	<u>20</u>	<u>1</u>	<u>FACU</u>															
3. <u> </u>																		
4. <u> </u>																		
	<u>55</u>	= Total Cover																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus spectabilis</u>	<u>50</u>	<u>1</u>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1= <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2= <u> </u></td> </tr> <tr> <td>FAC species <u>105</u></td> <td>x 3= <u>315</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4= <u>120</u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5= <u> </u></td> </tr> <tr> <td>Column Totals: <u>135</u> (A)</td> <td><u>435</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.22</u>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1= <u> </u>	FACW species <u> </u>	x 2= <u> </u>	FAC species <u>105</u>	x 3= <u>315</u>	FACU species <u>30</u>	x 4= <u>120</u>	UPL species <u> </u>	x 5= <u> </u>	Column Totals: <u>135</u> (A)	<u>435</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u> </u>	x 1= <u> </u>																	
FACW species <u> </u>	x 2= <u> </u>																	
FAC species <u>105</u>	x 3= <u>315</u>																	
FACU species <u>30</u>	x 4= <u>120</u>																	
UPL species <u> </u>	x 5= <u> </u>																	
Column Totals: <u>135</u> (A)	<u>435</u> (B)																	
2. <u>Gaultheria shallon</u>	<u>10</u>		<u>FACU</u>															
3. <u> </u>																		
4. <u>Rubus armeniacus</u>	<u>5</u>		<u>FAC</u>															
5. <u> </u>																		
	<u>65</u>	= Total Cover																
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u> </u>				Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u> </u>																		
3. <u> </u>																		
4. <u> </u>																		
5. <u> </u>																		
6. <u> </u>																		
7. <u> </u>																		
8. <u> </u>																		
9. <u> </u>																		
10. <u> </u>																		
11. <u> </u>																		
			= Total Cover															
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus armeniacus</u>	<u>15</u>	<u>1</u>	<u>FAC</u>															
2. <u> </u>																		
	<u>15</u>	= Total Cover																
% Bare Ground in Herb Stratum <u>100</u>																		
Remarks: <u>0 herbs</u>																		
				Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u>														

SOIL

Sampling Point: SP07

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 2/2	100					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP08
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terraces Local relief (concave, convex, none): convex Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.588475 Long: -124.060415 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near PSCC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil X or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u> <u>Soils are fill material, however, assumed to be hydric based on wetland hydrology and hydrophytic plants.</u>	

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30'</u> R)																		
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
_____ = Total Cover	_____	_____	_____															
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30'</u> R)																		
1. _____	_____	_____	_____	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Total % Cover of:</td> <td style="text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u>1</u></td> <td>x 1= <u>1</u></td> </tr> <tr> <td>FACW species <u>35</u></td> <td>x 2= <u>70</u></td> </tr> <tr> <td>FAC species <u>35</u></td> <td>x 3= <u>105</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4= <u>20</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: <u>76</u> (A)</td> <td><u>196</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.58</u>	Total % Cover of:	Multiply by:	OBL species <u>1</u>	x 1= <u>1</u>	FACW species <u>35</u>	x 2= <u>70</u>	FAC species <u>35</u>	x 3= <u>105</u>	FACU species <u>5</u>	x 4= <u>20</u>	UPL species _____	x 5= _____	Column Totals: <u>76</u> (A)	<u>196</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>1</u>	x 1= <u>1</u>																	
FACW species <u>35</u>	x 2= <u>70</u>																	
FAC species <u>35</u>	x 3= <u>105</u>																	
FACU species <u>5</u>	x 4= <u>20</u>																	
UPL species _____	x 5= _____																	
Column Totals: <u>76</u> (A)	<u>196</u> (B)																	
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____ = Total Cover	_____	_____	_____															
<u>Herb Stratum</u> (Plot size: <u>5'</u> R)																		
1. <u>Holcus lanatus</u>	<u>30</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u>X</u> 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Equisetum arvense</u>	<u>5</u>	_____	<u>FAC</u>															
3. <u>Lysichiton americanus</u>	<u>1</u>	_____	<u>OBL</u>															
4. <u>Juncus effusus</u>	<u>20</u>	<u>1</u>	<u>FACW</u>															
5. <u>Epilobium ciliatum</u>	<u>15</u>	_____	<u>FACW</u>															
6. <u>Rubus parviflorus</u>	<u>5</u>	_____	<u>FACU</u>															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
11. _____ = Total Cover	<u>76</u>	_____	_____															
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> R)																		
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>														
2. _____ = Total Cover	_____	_____	_____															
% Bare Ground in Herb Stratum <u> </u>																		
Remarks: _____																		

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP09
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.588392 Long: -124.060495 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near PSCC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Veg has been mowed within ditch feature</u> <u>4% slope</u> <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status		
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)					
1. <u>Picea sitchensis</u>	35	1	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>42.86</u> (A/B)	
2. <u>Pseudotsuga menziesii</u>	20	1	FACU		
3. _____					
4. _____					
	55	= Total Cover		Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>100</u> x 3= <u>300</u> FACU species <u>90</u> x 4= <u>360</u> UPL species _____ x 5= _____ Column Totals: <u>190</u> (A) <u>660</u> (B) Prevalence Index = B/A = <u>3.47</u>	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)					
1. <u>Rubus parviflorus</u>	20	1	FACU		
2. <u>Gaultheria shallon</u>	40	1	FACU		
3. _____					
4. _____					
5. _____					
	60	= Total Cover			
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)					
1. <u>Linnaea borealis</u>	5	1	FACU	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation ____ 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Equisetum arvense</u>	50	1	FAC		
3. <u>Polystichum munitum</u>	5		FACU		
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
	60	= Total Cover			
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)					
1. <u>Rubus armeniacus</u>	15	1	FAC		
2. _____					
	15	= Total Cover			
% Bare Ground in Herb Stratum _____					
Remarks: <u>Veg has been mowed within ditch feature</u>				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

SOIL

Sampling Point: SP09

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 YR 2/2	100					Sandy loam	
4-16	10 YR 2/2						gravelly loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: 4% slope	

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks:	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP10
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 2
 Subregion (LRR): A2 - Willamette Valley Lat: 44.54934 Long: -124.048044 Datum: NAD83
 Soil Map Unit Name: 35E - Lint silt loam, 5 to 25 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Clear cut</u>			
<u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____					Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
2. _____					Total Number of Dominant Species Across All Strata: _____ (B)
3. _____					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>#DIV/0!</u> (A/B)
4. _____					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
= Total Cover					
Sapling/Shrub Stratum	(Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
= Total Cover					
Herb Stratum	(Plot size: <u>5' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
= Total Cover					
Woody Vine Stratum	(Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____					
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u>100</u>					
Remarks: <u>Clear cut</u>					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	7.5 YR 3/3	98	Charcoal	2				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: Clear cut

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP11
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): convex Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.550203 Long: -124.046922 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil X or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u> <u>Soils are disturbed, however, assumed to be hydric based on wetland hydrology and hydrophytic plants.</u> <u>Flowing water present</u>	

VEGETATION – Use scientific names of plants.

Stratum	Plot size	R	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u>Tree Stratum</u>	<u>(Plot size: 30'</u>	<u>R)</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
1. _____						Total Number of Dominant Species Across All Strata: <u>3</u> (B)
2. _____						
3. _____						
4. _____						
					= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
<u>Sapling/Shrub Stratum</u>	<u>(Plot size: 30'</u>	<u>R)</u>				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>20</u> x 1= <u>20</u> FACW species <u> </u> x 2= <u> </u> FAC species <u>10</u> x 3= <u>30</u> FACU species <u>10</u> x 4= <u>40</u> UPL species <u> </u> x 5= <u> </u> Column Totals: <u>40</u> (A) <u>90</u> (B)
1. <u>Rubus spectabilis</u>			<u>5</u>	<u>1</u>	<u>FAC</u>	
2. <u>Gaultheria shallon</u>			<u>5</u>	<u>1</u>	<u>FACU</u>	
3. _____						
4. _____						
			<u>10</u>		= Total Cover	Prevalence Index = B/A = <u>2.25</u>
<u>Herb Stratum</u>	<u>(Plot size: 5'</u>	<u>R)</u>				Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u>X</u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Blechnum spicant</u>			<u>5</u>		<u>FAC</u>	
2. <u>Lysichiton americanus</u>			<u>20</u>	<u>1</u>	<u>OBL</u>	
3. <u>Epilobium minutum</u>			<u>5</u>		<u>FACU</u>	
4. _____						
5. _____						
6. _____						
7. _____						
8. _____						
9. _____						
10. _____						
11. _____						
			<u>30</u>		= Total Cover	
<u>Woody Vine Stratum</u>	<u>(Plot size: 30'</u>	<u>R)</u>				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
1. _____						
2. _____						
					= Total Cover	
% Bare Ground in Herb Stratum <u> </u>						

Remarks: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10 YR 4/3	50	10 YR 3/6	2	C	M	Sand	
0-8	10 YR 2/2	58					Sand loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: Soils are disturbed, however, assumed to be hydric based on wetland hydrology and hydrophytic plants.

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>3</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____ (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Flowing water present

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP12
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): slope Slope (%): 8
 Subregion (LRR): A2 - Willamette Valley Lat: 44.55023 Long: -124.046925 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u> Hydric Soil Present? Yes <u> </u> No <u>X</u> Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Remarks: <u>clear cut drainage, very steep side walls</u> <u>Recorded precipitation in previous months was below normal range</u> <u>Clear cut</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____					Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____					Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____					
4. _____					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
_____ = Total Cover					
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)					
1. <u>Rubus spectabilis</u>		<u>20</u>	<u>1</u>	<u>FAC</u>	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
2. _____					
3. _____					
4. _____					
5. _____					
_____ = Total Cover					
Herb Stratum (Plot size: <u>5' R</u>)					
1. <u>Blechnum spicant</u>		<u>15</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Athyrium cyclosorum</u>		<u>2</u>		<u>FAC</u>	
3. <u>Polystichum munitum</u>		<u>5</u>	<u>1</u>	<u>FACU</u>	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____ = Total Cover					
Woody Vine Stratum (Plot size: <u>30' R</u>)					
1. _____					Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u>
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>100</u>					
Remarks: <u>clear cut drainage, very steep side walls</u>					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	7.5 YR 3/3	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____	
Remarks: Clear cut	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP13
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.546643 Long: -124.047727 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Clear cut</u> <u>Recorded precipitation in previous months was below normal range</u> <u>Clear cut</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: _____ (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>#DIV/0!</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Prevalence Index worksheet:
_____ = Total Cover	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)				Total % Cover of: _____ Multiply by: _____
1. _____	_____	_____	_____	OBL species _____ x 1= _____
2. _____	_____	_____	_____	FACW species _____ x 2= _____
3. _____	_____	_____	_____	FAC species _____ x 3= _____
4. _____	_____	_____	_____	FACU species _____ x 4= _____
5. _____	_____	_____	_____	UPL species _____ x 5= _____
_____ = Total Cover	_____	_____	_____	Column Totals: _____ (A) _____ (B)
Herb Stratum (Plot size: <u>5' R</u>)				Prevalence Index = B/A = <u>0</u>
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
_____ = Total Cover	_____	_____	_____	
Woody Vine Stratum (Plot size: <u>30' R</u>)				1- Rapid Test For Hydrophytic Vegetation
1. _____	_____	_____	_____	2- Dominance Test is >50%
2. _____	_____	_____	_____	3- Prevalence Index is ≤3.0 ¹
_____ = Total Cover	_____	_____	_____	4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
% Bare Ground in Herb Stratum <u>100</u>	_____	_____	_____	5- Wetland Non-Vascular Plants ¹
	_____	_____	_____	6- Problematic Hydrophytic Vegetation ¹ (Explain)
	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	_____	_____	_____	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>Clear cut</u>				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	7.5 YR 3/3	98	Charcoal	2				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:</p>	
<p>Remarks: <u>Clear cut</u></p>	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP14
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.556066 Long: -124.050715 Datum: NAD83
 Soil Map Unit Name: 35E - Lint silt loam, 5 to 25 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>Refusal at 4 inches. On edge of logging road bed</u> <u>Recorded precipitation in previous months was below normal range</u>	

VEGETATION – Use scientific names of plants.

Stratum	Plot size	R	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30'</u> R)																				
1. <u>Picea sitchensis</u>			<u>50</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)														
2. _____																				
3. _____																				
4. _____																				
5. _____																				
			<u>50</u> = Total Cover																	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30'</u> R)																				
1. <u>Rhamnus cathartica</u>			<u>5</u>	<u>1</u>	<u>UPL</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species <u>70</u></td> <td>x 3= <u>210</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4= <u>200</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>410</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.42</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species <u>70</u>	x 3= <u>210</u>	FACU species <u>50</u>	x 4= <u>200</u>	UPL species _____	x 5= _____	Column Totals: <u>120</u> (A)	<u>410</u> (B)
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species <u>70</u>	x 3= <u>210</u>																			
FACU species <u>50</u>	x 4= <u>200</u>																			
UPL species _____	x 5= _____																			
Column Totals: <u>120</u> (A)	<u>410</u> (B)																			
2. _____																				
3. _____																				
4. _____																				
5. _____																				
			<u>5</u> = Total Cover																	
<u>Herb Stratum</u> (Plot size: <u>5'</u> R)																				
1. <u>Plantago lanceolata</u>			<u>5</u>		<u>FACU</u>	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Gaultheria shallon</u>			<u>45</u>	<u>1</u>	<u>FACU</u>															
3. <u>Rubus spectabilis</u>			<u>20</u>	<u>1</u>	<u>FAC</u>															
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
			<u>70</u> = Total Cover																	
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> R)																				
1. _____																				
2. _____																				
			_____ = Total Cover																	
% Bare Ground in Herb Stratum _____																				
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																				
Remarks:																				

SOIL

Sampling Point: SP14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	7.5 YR 33/3						Silt loam	
4-16	Fill							

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: Refusal at 4 inches. On edge of logging road bed

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP15
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.557346 Long: -124.050925 Datum: NAD83
 Soil Map Unit Name: 18G - Fendall-Templeton silt loams, 35 to 60 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Open and mossy forest floor</u>			
<u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status		
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)					
1. <u>Tsuga heterophylla</u>	10	1	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)	
2. <u>Picea sitchensis</u>	55	1	FAC		
3. _____					
4. _____					
	65	= Total Cover		Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>55</u> x 3= <u>165</u> FACU species <u>20</u> x 4= <u>80</u> UPL species _____ x 5= _____ Column Totals: <u>75</u> (A) <u>245</u> (B) Prevalence Index = B/A = <u>3.27</u>	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)					
1. _____					
2. _____					
3. _____					
4. _____					
5. _____					
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)					
1. <u>Gaultheria shallon</u>	10	1	FACU	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation ____ 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. _____					
3. _____					
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
	10	= Total Cover			
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)					
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
2. _____					
% Bare Ground in Herb Stratum <u>90</u>					
Remarks: <u>Open and mossy forest floor</u>					

SOIL

Sampling Point: SP15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
								Same as SP14

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 2/2						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP17
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.567856 Long: -124.054963 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>x</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>		

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Picea sitchensis</u>	65	1	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
2. <u>Alnus rubra</u>	15		FAC	
3. _____				
4. _____				
	80	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Gaultheria shallon</u>	30	1	FACU	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>90</u> x 3= <u>270</u> FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: <u>90</u> (A) <u>270</u> (B) Prevalence Index = B/A = <u>3.00</u>
2. <u>Rubus spectabilis</u>	10	1	FAC	
3. _____				
4. _____				
5. _____				
	40	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)				
1. _____				Hydrophytic Vegetation Indicators: _____ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u>X</u> 3- Prevalence Index is ≤3.0 ¹ _____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ 5- Wetland Non-Vascular Plants ¹ _____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)				
1. _____				Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u>
2. _____				
% Bare Ground in Herb Stratum	100			
Remarks:				

SOIL

Sampling Point: SP17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	7.5 YR 2.5/2						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks:

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP18
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.570218 Long: -124.056053 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>x</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Pinus contorta</u>	45	1	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B)																
2. <u>Alnus rubra</u>	15	1	FAC																	
3. <u> </u>																				
4. <u> </u>																				
60 = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Gaultheria shallon</u>	60	1	FACU	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1= <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2= <u> </u></td> </tr> <tr> <td>FAC species <u>70</u></td> <td>x 3= <u>210</u></td> </tr> <tr> <td>FACU species <u>75</u></td> <td>x 4= <u>300</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5= <u>50</u></td> </tr> <tr> <td>Column Totals: <u>155</u> (A)</td> <td><u>560</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.61</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1= <u> </u>	FACW species <u> </u>	x 2= <u> </u>	FAC species <u>70</u>	x 3= <u>210</u>	FACU species <u>75</u>	x 4= <u>300</u>	UPL species <u>10</u>	x 5= <u>50</u>	Column Totals: <u>155</u> (A)	<u>560</u> (B)	Prevalence Index = B/A = <u>3.61</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1= <u> </u>																			
FACW species <u> </u>	x 2= <u> </u>																			
FAC species <u>70</u>	x 3= <u>210</u>																			
FACU species <u>75</u>	x 4= <u>300</u>																			
UPL species <u>10</u>	x 5= <u>50</u>																			
Column Totals: <u>155</u> (A)	<u>560</u> (B)																			
Prevalence Index = B/A = <u>3.61</u>																				
2. <u>Cytisus scoparius</u>	10		NL																	
3. <u> </u>																				
4. <u> </u>																				
5. <u> </u>																				
70 = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																				
1. <u>Pteridium aquilinum</u>	15	1	FACU	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
5. <u> </u>																				
6. <u> </u>																				
7. <u> </u>																				
8. <u> </u>																				
9. <u> </u>																				
10. <u> </u>																				
11. <u> </u>																				
15 = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Rubus armeniacus</u>	10	1	FAC																	
2. <u> </u>																				
10 = Total Cover																				
% Bare Ground in Herb Stratum <u>100</u>				Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u>																
Remarks:																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP19
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.567205 Long: -124.057588 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status						
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)									
1. <u>Pinus contorta</u>	10	1	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>57.14</u> (A/B)					
2. <u>Alnus rubra</u>	10	1	FAC						
3. <u>Picea sitchensis</u>	15	1	FAC						
4. _____									
	35	= Total Cover							
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)									
1. <u>Gaultheria shallon</u>	25	1	FACU	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>45</u> x 3= <u>135</u> FACU species <u>70</u> x 4= <u>280</u> UPL species <u>10</u> x 5= <u>50</u> Column Totals: <u>125</u> (A) <u>465</u> (B) Prevalence Index = B/A = <u>3.72</u>					
2. <u>Cytisus scoparius</u>	10		NL						
3. <u>Vaccinium parvifolium</u>	30	1	FACU						
4. _____									
5. _____									
	65	= Total Cover							
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)									
1. <u>Pteridium aquilinum</u>	15	1	FACU	Hydrophytic Vegetation Indicators: <u>1</u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
2. <u>Holcus lanatus</u>	10	1	FAC						
3. _____									
4. _____									
5. _____									
6. _____									
7. _____									
8. _____									
9. _____									
10. _____									
11. _____									
	25	= Total Cover							
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)									
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
2. _____									
			= Total Cover						
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">% Bare Ground in Herb Stratum</td> <td style="width: 10%; text-align: center;"><u>100</u></td> <td colspan="3"></td> </tr> </table>					% Bare Ground in Herb Stratum	<u>100</u>			
% Bare Ground in Herb Stratum	<u>100</u>								
Remarks:									

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP21
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.564933 Long: -124.055035 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near R4SBC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status						
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)									
1. <u>Tsuga heterophylla</u>	<u>60</u>	<u>1</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.00</u> (A/B)					
2. <u>Picea sitchensis</u>	<u>5</u>		<u>FAC</u>						
3. _____									
4. _____									
	<u>65</u>	= Total Cover		Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>10</u> x 3= <u>30</u> FACU species <u>110</u> x 4= <u>440</u> UPL species _____ x 5= _____ Column Totals: <u>120</u> (A) <u>470</u> (B) Prevalence Index = B/A = <u>3.92</u>					
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)									
1. <u>Gaultheria shallon</u>	<u>40</u>	<u>1</u>	<u>FACU</u>						
2. _____									
3. _____									
4. _____									
5. _____									
	<u>40</u>	= Total Cover							
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)									
1. <u>Polystichum munitum</u>	<u>10</u>	<u>1</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation ____ 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
2. <u>Blechnum spicant</u>	<u>5</u>	<u>1</u>	<u>FAC</u>						
3. _____									
4. _____									
5. _____									
6. _____									
7. _____									
8. _____									
9. _____									
10. _____									
11. _____									
	<u>15</u>	= Total Cover							
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)									
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					
2. _____									
	= Total Cover								
<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">% Bare Ground in Herb Stratum</td> <td style="width: 10%; text-align: center;"><u>100</u></td> <td colspan="3"></td> </tr> </table>					% Bare Ground in Herb Stratum	<u>100</u>			
% Bare Ground in Herb Stratum	<u>100</u>								
Remarks:									

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP22
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.564982 Long: -124.054448 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near R4SBC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>	

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>30'</u> R)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
<u>Sapling/Shrub Stratum</u>				
(Plot size: <u>30'</u> R)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species <u>20</u> x 1= <u>20</u> FACW species _____ x 2= _____ FAC species <u>10</u> x 3= <u>30</u> FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: <u>30</u> (A) <u>50</u> (B) Prevalence Index = B/A = <u>1.67</u>
<u>Herb Stratum</u>				
(Plot size: <u>5'</u> R)				
1. <u>Blechnum spicant</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	
2. <u>Lysichiton americanus</u>	<u>20</u>	<u>1</u>	<u>OBL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>30</u> = Total Cover				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u>X</u> 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<u>Woody Vine Stratum</u>				
(Plot size: <u>30'</u> R)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
% Bare Ground in Herb Stratum _____				
Remarks:				

SOIL

Sampling Point: **SP22**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 YR 3/3	80					Silt loam	
0-4	Gravel	20						
4-16	10 YR 4/2	90	10 YR 6/2	10	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present):

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes No _____

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present?	Yes <input checked="" type="checkbox"/>	No _____	Depth (Inches): <u>2</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Water Table Present?	Yes <input checked="" type="checkbox"/>	No _____	Depth (Inches): _____	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/>	No _____	Depth (Inches): _____	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____

Remarks: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks: _____	

SOIL

Sampling Point: **SP24**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP25
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.565085 Long: -124.054249 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near R4SBC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
Sapling/Shrub Stratum				
(Plot size: <u>30' R</u>)				
1. <u>Rubus spectabilis</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species <u>30</u> x 1= <u>30</u> FACW species <u>20</u> x 2= <u>40</u> FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: <u>50</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>1.40</u>
Herb Stratum				
(Plot size: <u>5' R</u>)				
1. <u>Blechnum spicant</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	
2. <u>Lysichiton americanus</u>	<u>30</u>	<u>1</u>	<u>OBL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum				
(Plot size: <u>30' R</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>				
Remarks:				

SOIL

Sampling Point: SP25

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 YR 3/3	80					Silt loam	
0-4	Gravel	20						
4-16	10 YR 4/2	90	10 YR 6/2	10	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>3</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

SOIL

Sampling Point: SP26

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP27
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.565251 Long: -124.053994 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near R4SBC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)	
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
_____ = Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B)	
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)				Prevalence Index worksheet:	
1. <u>Rubus spectabilis</u>	<u>10</u>	<u>1</u>	<u>FAC</u>		Total % Cover of: _____ Multiply by: _____
2. _____	_____	_____	_____		OBL species <u>20</u> x 1= <u>20</u>
3. _____	_____	_____	_____		FACW species _____ x 2= _____
4. _____	_____	_____	_____		FAC species <u>20</u> x 3= <u>60</u>
5. _____	_____	_____	_____	FACU species <u>10</u> x 4= <u>40</u>	
_____ = Total Cover				UPL species _____ x 5= _____	
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)				Column Totals: <u>50</u> (A) <u>120</u> (B)	
1. <u>Blechnum spicant</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	Prevalence Index = B/A = <u>2.40</u>	
2. <u>Lysichiton americanus</u>	<u>20</u>	<u>1</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators:	
3. <u>Pteridium aquilinum</u>	<u>10</u>	<u>1</u>	<u>FACU</u>		<input type="checkbox"/> 1- Rapid Test For Hydrophytic Vegetation
4. _____	_____	_____	_____		<input checked="" type="checkbox"/> 2- Dominance Test is >50%
5. _____	_____	_____	_____		<input checked="" type="checkbox"/> 3- Prevalence Index is ≤3.0 ¹
6. _____	_____	_____	_____		<input type="checkbox"/> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
7. _____	_____	_____	_____		<input type="checkbox"/> 5- Wetland Non-Vascular Plants ¹
8. _____	_____	_____	_____		<input type="checkbox"/> 6- Problematic Hydrophytic Vegetation ¹ (Explain)
9. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10. _____	_____	_____	_____		Hydrophytic Vegetation Present?
11. _____	_____	_____	_____		
_____ = Total Cover					
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks:					

SOIL

Sampling Point: SP27

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 YR 3/3	80					Silt loam	
0-4	Gravel	20						
4-16	10 YR 4/2	90	10 YR 6/2	10	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes No Depth (Inches): 2

Water Table Present? Yes No Depth (Inches): _____

Saturation Present? Yes No Depth (Inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP28
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 5
 Subregion (LRR): A2 - Willamette Valley Lat: 44.565582 Long: -124.053696 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near R4SBC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>open mossy forest floor with duff and litter</u>			
<u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Tsuga heterophylla</u>	20	1	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>28.57</u> (A/B)														
2. <u>Picea sitchensis</u>	40	1	FAC															
3. _____																		
4. _____																		
	60	= Total Cover																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Gaultheria shallon</u>	15	1	FACU	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species <u>60</u></td> <td>x 3= <u>180</u></td> </tr> <tr> <td>FACU species <u>85</u></td> <td>x 4= <u>340</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: <u>145</u> (A)</td> <td><u>520</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.59</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species <u>60</u>	x 3= <u>180</u>	FACU species <u>85</u>	x 4= <u>340</u>	UPL species _____	x 5= _____	Column Totals: <u>145</u> (A)	<u>520</u> (B)
Total % Cover of:	Multiply by:																	
OBL species _____	x 1= _____																	
FACW species _____	x 2= _____																	
FAC species <u>60</u>	x 3= <u>180</u>																	
FACU species <u>85</u>	x 4= <u>340</u>																	
UPL species _____	x 5= _____																	
Column Totals: <u>145</u> (A)	<u>520</u> (B)																	
2. <u>Vaccinium parvifolium</u>	20	1	FACU															
3. <u>Menziesia ferruginea</u>	10		FACU															
4. <u>Rubus spectabilis</u>	10		FAC															
5. _____																		
	55	= Total Cover																
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Polystichum munitum</u>	10	1	FACU	Hydrophytic Vegetation Indicators: ___ 1-Rapid Test For Hydrophytic Vegetation ___ 2-Dominance Test is >50% ___ 3-Prevalence Index is ≤3.0 ¹ ___ 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5-Wetland Non-Vascular Plants ¹ ___ 6-Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Blechnum spicant</u>	10	1	FAC															
3. <u>Pteridium aquilinum</u>	10	1	FACU															
4. <u>Athyrium cyclosum</u>	5		FAC															
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
	35	= Total Cover																
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
2. _____																		
% Bare Ground in Herb Stratum _____																		
Remarks: <u>open mossy forest floor with duff and litter</u>																		

SOIL

Sampling Point: SP28

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____</p>	
<p>Remarks: _____</p>	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP29
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 7
 Subregion (LRR): A2 - Willamette Valley Lat: 44.565601 Long: -124.053599 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Near R4SBC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Alnus rubra</u>	<u>35</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)														
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
_____	<u>35</u> = Total Cover	_____	_____															
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus spectabilis</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>40</u></td> <td>x 1= <u>40</u></td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species <u>55</u></td> <td>x 3= <u>165</u></td> </tr> <tr> <td>FACU species <u>10</u></td> <td>x 4= <u>40</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>245</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>2.33</u>	Total % Cover of:	Multiply by:	OBL species <u>40</u>	x 1= <u>40</u>	FACW species _____	x 2= _____	FAC species <u>55</u>	x 3= <u>165</u>	FACU species <u>10</u>	x 4= <u>40</u>	UPL species _____	x 5= _____	Column Totals: <u>105</u> (A)	<u>245</u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u>40</u>	x 1= <u>40</u>																	
FACW species _____	x 2= _____																	
FAC species <u>55</u>	x 3= <u>165</u>																	
FACU species <u>10</u>	x 4= <u>40</u>																	
UPL species _____	x 5= _____																	
Column Totals: <u>105</u> (A)	<u>245</u> (B)																	
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	<u>10</u> = Total Cover	_____	_____															
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Blechnum spicant</u>	<u>10</u>	_____	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u>X</u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Lysichiton americanus</u>	<u>40</u>	<u>1</u>	<u>OBL</u>															
3. <u>Pteridium aquilinum</u>	<u>10</u>	_____	<u>FACU</u>															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
7. _____	_____	_____	_____															
8. _____	_____	_____	_____															
9. _____	_____	_____	_____															
10. _____	_____	_____	_____															
11. _____	<u>60</u> = Total Cover	_____	_____															
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>														
2. _____	_____	_____	_____															
_____	_____	_____	_____															
_____ = Total Cover																		
% Bare Ground in Herb Stratum _____																		
Remarks:																		

SOIL

Sampling Point: SP29

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 YR 3/3	80					Silt loam	
0-4	Gravel	20						
4-16	10 YR 4/2	90	10 YR 6/2	10	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>2</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP30
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 2
 Subregion (LRR): A2 - Willamette Valley Lat: 44.566951 Long: -124.059818 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Pinus contorta</u>	20	1	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. <u>Alnus rubra</u>	5		FAC	
3. _____				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
4. _____				
<u>25</u> = Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)				
1. <u>Gaultheria shallon</u>	30	1	FACU	
2. <u>Rubus spectabilis</u>	10		FAC	
3. <u>Alnus rubra</u>	10		FAC	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>55</u> x 3= <u>165</u> FACU species <u>30</u> x 4= <u>120</u> UPL species <u>20</u> x 5= <u>100</u> Column Totals: <u>105</u> (A) <u>385</u> (B) Prevalence Index = B/A = <u>3.67</u>
4. <u>Cytisus scoparius</u>	20	1	NL	
5. _____				
<u>70</u> = Total Cover				
Herb Stratum (Plot size: <u>5' R</u>)				
1. _____				Hydrophytic Vegetation Indicators: ___ 1-Rapid Test For Hydrophytic Vegetation ___ 2-Dominance Test is >50% ___ 3-Prevalence Index is ≤3.0 ¹ ___ 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5-Wetland Non-Vascular Plants ¹ ___ 6-Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. <u>Dandelion and crab grass 20 each</u>				
<u>10</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30' R</u>)				
1. <u>Rubus armeniacus</u>	10		FAC	
2. _____				
<u>10</u> = Total Cover				
% Bare Ground in Herb Stratum <u>100</u>				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP31
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.568979 Long: -124.060151 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks:					
Recorded precipitation in previous months was below normal range					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Pinus contorta</u>	20	1	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)														
2. <u>Alnus rubra</u>	5		FAC															
3. _____																		
4. _____																		
	25	= Total Cover																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Gaultheria shallon</u>	30	1	FACU	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Total % Cover of:</td> <td style="width: 50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species <u>45</u></td> <td>x 3= <u>135</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4= <u>120</u></td> </tr> <tr> <td>UPL species <u>20</u></td> <td>x 5= <u>100</u></td> </tr> <tr> <td>Column Totals: <u>95</u> (A)</td> <td><u>355</u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>3.74</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species <u>45</u>	x 3= <u>135</u>	FACU species <u>30</u>	x 4= <u>120</u>	UPL species <u>20</u>	x 5= <u>100</u>	Column Totals: <u>95</u> (A)	<u>355</u> (B)
Total % Cover of:	Multiply by:																	
OBL species _____	x 1= _____																	
FACW species _____	x 2= _____																	
FAC species <u>45</u>	x 3= <u>135</u>																	
FACU species <u>30</u>	x 4= <u>120</u>																	
UPL species <u>20</u>	x 5= <u>100</u>																	
Column Totals: <u>95</u> (A)	<u>355</u> (B)																	
2. <u>Rubus spectabilis</u>	10		FAC															
3. <u>Alnus rubra</u>	10	1	FAC															
4. <u>Cytisus scoparius</u>	20	1	NL															
5. _____																		
	70	= Total Cover																
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. _____				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1- Rapid Test For Hydrophytic Vegetation <input type="checkbox"/> 2- Dominance Test is >50% <input type="checkbox"/> 3- Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> 5- Wetland Non-Vascular Plants ¹ <input type="checkbox"/> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. _____																		
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. <u>Dandelion and crab grass 20 each</u>																		
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus armeniacus</u>	10		FAC	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
2. _____																		
	10	= Total Cover																
% Bare Ground in Herb Stratum <u>100</u>																		
Remarks:																		

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP32
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.5932943534 Long: -124.056214897 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Tsuga heterophylla</u>	85	1	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.00</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
85 = Total Cover																		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Sambucus racemosa</u>	40	1	FACU	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> </table> Prevalence Index = B/A = <u>0</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)
Total % Cover of:	Multiply by:																	
OBL species _____	x 1= _____																	
FACW species _____	x 2= _____																	
FAC species _____	x 3= _____																	
FACU species _____	x 4= _____																	
UPL species _____	x 5= _____																	
Column Totals: _____ (A)	_____ (B)																	
2. _____																		
3. _____																		
4. _____																		
5. _____																		
40 = Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Polystichum munitum</u>	40	1	FACU	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Athyrium cyclosum</u>	20	1	FAC															
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
60 = Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
2. _____																		
_____ = Total Cover																		
% Bare Ground in Herb Stratum _____																		
Remarks: _____																		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10 YR 2/2	100					Sandy loam	quite a bit of sand
8-14	10 YR 2/2	100					loam	
14-16	10 YR 4/2	90	10 YR 3/6	5			sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)
	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP33
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.5933214363 Long: -124.056221006 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>x</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u> <u>wetland hydrology is contained within hour-glass disc shaped basin</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____					Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____					Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
4. _____					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
= Total Cover					
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)					
1. <u>rubus spectabilis</u>		<u>20</u>	<u>1</u>	<u>FAC</u>	
2. _____					
3. _____					
4. _____					
5. _____					
= Total Cover					
Herb Stratum (Plot size: <u>5' R</u>)					
1. <u>Blechnum spicant</u>		<u>5</u>		<u>FAC</u>	
2. <u>carex obnupta</u>		<u>30</u>	<u>1</u>	<u>OBL</u>	
3. <u>Lysichiton americanus</u>		<u>80</u>	<u>1</u>	<u>OBL</u>	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
= Total Cover					
Woody Vine Stratum (Plot size: <u>30' R</u>)					
1. _____					
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u> </u>					
Remarks: _____					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 YR 4/2	90	10 YR 3/6	10	C	M	Silt loam	
4-16	10 YR 4/2	80	10 YR 3/6	20	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes No Depth (Inches): 4

Water Table Present? Yes No Depth (Inches): _____

Saturation Present? Yes No Depth (Inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: wetland hydrology is contained within hour-glass disc shaped basin

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 3/3						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available</p>	
<p>Remarks: _____</p>	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP35
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591993 Long: -124.057648 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Tsuga heterophylla</u>	85	1	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.00</u> (A/B)	
4. _____					
5. _____					
<u>85</u> = Total Cover				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)				Total % Cover of: _____ Multiply by: _____	
1. <u>Sambucus racemosa</u>	40	1	FACU	OBL species _____ x 1= _____	
2. _____				FACW species _____ x 2= _____	
3. _____				FAC species _____ x 3= _____	
4. _____				FACU species _____ x 4= _____	
5. _____				UPL species _____ x 5= _____	
<u>40</u> = Total Cover				Column Totals: _____ (A) _____ (B)	
Herb Stratum (Plot size: <u>5' R</u>)				Prevalence Index = B/A = <u>0</u>	
1. <u>Polystichum munitum</u>	40	1	FACU	Hydrophytic Vegetation Indicators:	
2. <u>Athyrium cyclosum</u>	20	1	FAC	____ 1- Rapid Test For Hydrophytic Vegetation	
3. _____				____ 2- Dominance Test is >50%	
4. _____				____ 3- Prevalence Index is ≤3.0 ¹	
5. _____				____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
6. _____				____ 5- Wetland Non-Vascular Plants ¹	
7. _____				____ 6- Problematic Hydrophytic Vegetation ¹ (Explain)	
8. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
9. _____					
10. _____					
11. _____					
<u>60</u> = Total Cover				Hydrophytic Vegetation Present?	
Woody Vine Stratum (Plot size: <u>30' R</u>)				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks: _____					

SOIL

Sampling Point: SP35

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10 YR 2/2	100					Sandy loam	quite a bit of sand
8-14	10 YR 2/2	100					loam	
14-16	10 YR 4/2	90	10 YR 3/6	5			sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:	Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP36
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.592006 Long: -124.057742 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>x</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
Sapling/Shrub Stratum				
(Plot size: <u>30' R</u>)				
1. <u>rubus spectabilis</u>	<u>20</u>	<u>1</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
Herb Stratum				
(Plot size: <u>5' R</u>)				
1. <u>Blechnum spicant</u>	<u>5</u>	_____	<u>FAC</u>	
2. <u>carex obnupta</u>	<u>30</u>	<u>1</u>	<u>OBL</u>	
3. <u>Lysichiton americanus</u>	<u>80</u>	<u>1</u>	<u>OBL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum				
(Plot size: <u>30' R</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks: _____				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 YR 4/2	90	10 YR 3/6	10	C	M	Silt loam	
4-16	10 YR 4/2	80	10 YR 3/6	20	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes No Depth (Inches): 4

Water Table Present? Yes No Depth (Inches): _____

Saturation Present? Yes No Depth (Inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: wetland hydrology is contained within hour-glass disc shaped basin

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 28-May-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP37
 Investigator(s): Jeff Barna, PWS and Luke Johnson Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591325 Long: -124.058342 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Tsuga heterophylla</u>	10		FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)
2. <u>Picea sitchensis</u>	50	1	FAC	
3. <u>Alnus rubra</u>	15		FAC	
4. _____				
	75	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Gaultheria shallon</u>	10	1	FACU	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
2. _____				
3. _____				
4. _____				
5. _____				
	10	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)				
1. <u>Polystichum munitum</u>	10	1	FACU	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation ____ 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	10	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks: _____				

SOIL

Sampling Point: SP37

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 2/2						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 101
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.597722 Long: -124.0436960 Datum: NAD83
 Soil Map Unit Name: 25E - Lint silt loam, 5 to 25 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>		
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Tsuga heterophylla</u>	<u>60</u>	<u>1</u>	<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)	
2. <u> </u>				Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
3. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.00</u> (A/B)	
4. <u> </u>				Prevalence Index worksheet:	
60 = Total Cover					
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)				Total % Cover of: <u> </u> Multiply by: <u> </u>	
1. <u>Rubus spectabilis</u>	<u>15</u>	<u>1</u>	<u>FAC</u>	OBL species <u> </u> x 1= <u> </u>	
2. <u>Vaccinium parvifolium</u>	<u>5</u>	<u>1</u>	<u>FACU</u>	FACW species <u> </u> x 2= <u> </u>	
3. <u> </u>				FAC species <u> </u> x 3= <u> </u>	
4. <u> </u>				FACU species <u> </u> x 4= <u> </u>	
5. <u> </u>				UPL species <u> </u> x 5= <u> </u>	
20 = Total Cover				Column Totals: <u> </u> (A) <u> </u> (B)	
Herb Stratum (Plot size: <u>5' R</u>)				Prevalence Index = B/A = <u>0</u>	
1. <u>Lysichiton americanus</u>	<u>10</u>	<u>1</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Carex obnupta</u>	<u>30</u>	<u>1</u>	<u>OBL</u>		
3. <u> </u>					
4. <u> </u>					
5. <u> </u>					
6. <u> </u>					
7. <u> </u>					
8. <u> </u>					
9. <u> </u>					
10. <u> </u>					
40 = Total Cover					
Woody Vine Stratum (Plot size: <u>30' R</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	
1. <u> </u>					
2. <u> </u>					
= Total Cover					
% Bare Ground in Herb Stratum <u> </u>					
Remarks: <u> </u>					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 2/1	100					Silt loam	Very dark, no redox

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	---

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>7</u>	
Saturation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>4</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: SP102
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.597741 Long: -124.04359 Datum: NAD83
 Soil Map Unit Name: Lint silt loam, 5 to 25 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Tsuga heterophylla</u>	<u>60</u>	<u>1</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)																
2. _____																				
3. _____																				
4. _____																				
<u>60</u> = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Gaultheria shallon</u>	<u>5</u>	<u>1</u>	<u>FACU</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>0</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = <u>0</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species _____	x 3= _____																			
FACU species _____	x 4= _____																			
UPL species _____	x 5= _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = <u>0</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
<u>5</u> = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																				
1. <u>Polystichum munitum</u>	<u>5</u>	<u>1</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
<u>5</u> = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
2. _____																				
_____ = Total Cover																				
% Bare Ground in Herb Stratum <u>80</u>																				
Remarks: <u>mossy and leaf litter forest floor</u>																				

SOIL

Sampling Point: SP102

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	5YR2.5/2	100					Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: <u>Log</u></p> <p>Depth (inches): <u>14</u></p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: significant duff layer above soil.</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u></u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u></u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available</p>	
<p>Remarks:</p>	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 103
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0
 Subregion (LRR): A2 - Willamette Valley Lat: 44.596161 Long: -124.045984 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)	
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)	
2. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)	
3. _____	_____	_____	_____	Prevalence Index worksheet:	
4. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
5. _____	_____	_____	_____		OBL species _____ x 1= _____
= Total Cover					FACW species _____ x 2= _____
= Total Cover					FAC species _____ x 3= _____
= Total Cover				FACU species _____ x 4= _____	
= Total Cover				UPL species _____ x 5= _____	
= Total Cover				Column Totals: _____ (A) _____ (B)	
= Total Cover				Prevalence Index = B/A = <u>0</u>	
= Total Cover				Hydrophytic Vegetation Indicators:	
= Total Cover					____ 1- Rapid Test For Hydrophytic Vegetation
= Total Cover					____ 2- Dominance Test is >50%
= Total Cover					____ 3- Prevalence Index is ≤3.0 ¹
= Total Cover					____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
= Total Cover					____ 5- Wetland Non-Vascular Plants ¹
= Total Cover				____ 6- Problematic Hydrophytic Vegetation ¹ (Explain)	
= Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
= Total Cover				Hydrophytic Vegetation Present?	
= Total Cover				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Remarks: feature appears to be stormwater/wastewater enhanced gravel treatment system

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	Fill	80	5YR3/4	15	C	M	Sandy grave	
6-16	10YR 3/1	95	7.5YR 5/6	5	C	M	Sandy grave	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery(B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>6</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>4</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 104
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0
 Subregion (LRR): A2 - Willamette Valley Lat: 44.596128 Long: -124.046064 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Alnus rubra</u>	<u>5</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
	<u>5</u>	= Total Cover																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Gaultheria shallon</u>	<u>15</u>	<u>1</u>	<u>FACU</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> </table> Prevalence Index = B/A = <u>0</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)
Total % Cover of:	Multiply by:																	
OBL species _____	x 1= _____																	
FACW species _____	x 2= _____																	
FAC species _____	x 3= _____																	
FACU species _____	x 4= _____																	
UPL species _____	x 5= _____																	
Column Totals: _____ (A)	_____ (B)																	
2. _____																		
3. _____																		
4. _____																		
5. _____	<u>15</u>																	
	<u>30</u>	= Total Cover																
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Plantago lanceolata</u>	<u>20</u>	<u>1</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Cytisus scoparius</u>	<u>10</u>	<u>1</u>	<u>NL</u>															
3. <u>Holcus lanatus</u>	<u>5</u>		<u>FAC</u>															
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____	<u>35</u>	= Total Cover																
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus armeniacus</u>	<u>25</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
2. <u>Rubus ursinus</u>	<u>10</u>	<u>1</u>	<u>FACU</u>															
	<u>35</u>	= Total Cover																
% Bare Ground in Herb Stratum _____																		
Remarks: _____																		

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 105
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): None Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.594708 Long: -124.043273 Datum: NAD83
 Soil Map Unit Name: Fendall-Templeton silt loams, 35 to 60 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Tsuga heterophylla</u>	65	1	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)														
2. _____																		
3. _____																		
4. _____																		
	65	= Total Cover																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Rubus spectabilis</u>	25	1	FAC	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> </table> Prevalence Index = B/A = <u>0</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)
Total % Cover of:	Multiply by:																	
OBL species _____	x 1= _____																	
FACW species _____	x 2= _____																	
FAC species _____	x 3= _____																	
FACU species _____	x 4= _____																	
UPL species _____	x 5= _____																	
Column Totals: _____ (A)	_____ (B)																	
2. <u>Rubus parviflorus</u>	5		FACU															
3. <u>Gaultheria shallon</u>	10		FACU															
4. <u>Alnus rubra</u>	5		FAC															
5. <u>Vaccinium parvifolium</u>	10		FAC															
	55	= Total Cover																
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Polystichum munitum</u>	5	1	FACU	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Trillium ovatum</u>	10	1	FACU															
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. <u>Lily pad plant</u>	10																	
	25	= Total Cover																
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
2. _____																		
			= Total Cover															
% Bare Ground in Herb Stratum _____																		
Remarks: _____																		

SOIL

Sampling Point: 105

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	Duff							
2-10	10YR 4/6	97	7.5 yr 5/8	3	C	M/pl	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: <u>Hard pan</u> Depth (inches): <u>10</u>	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: <u>Old road bed</u>	

HYDROLOGY	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)	
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks:	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 106
 Investigator(s): L. Johnson, A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 20
 Subregion (LRR): A2 - Willamette Valley Lat: 44.5952101 Long: -124.0422739 Datum: NAD83
 Soil Map Unit Name: Fendall-Templeton silt loams, 35 to 60 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>		Yes <u>X</u>	No <u> </u>
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>		Yes <u>X</u>	No <u> </u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u> <u>Soils are moist and not saturated</u> <u>Within seasonal drainage,</u>					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>10m R</u>)																		
1. <u>Tsuga heterophylla</u>	<u>50</u>	<u>X</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>60.00</u> (A/B)														
2. <u> </u>																		
3. <u> </u>																		
4. <u> </u>																		
	<u>50</u>	= Total Cover																
<u>Sapling/Shrub Stratum</u> (Plot size: <u>5m R</u>)																		
1. <u>Rubus spectabilis</u>	<u>90</u>	<u>X</u>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1= <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2= <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3= <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4= <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5= <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> </table> Prevalence Index = B/A = <u>0</u>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1= <u> </u>	FACW species <u> </u>	x 2= <u> </u>	FAC species <u> </u>	x 3= <u> </u>	FACU species <u> </u>	x 4= <u> </u>	UPL species <u> </u>	x 5= <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)
Total % Cover of:	Multiply by:																	
OBL species <u> </u>	x 1= <u> </u>																	
FACW species <u> </u>	x 2= <u> </u>																	
FAC species <u> </u>	x 3= <u> </u>																	
FACU species <u> </u>	x 4= <u> </u>																	
UPL species <u> </u>	x 5= <u> </u>																	
Column Totals: <u> </u> (A)	<u> </u> (B)																	
2. <u> </u>																		
3. <u> </u>																		
4. <u> </u>																		
5. <u> </u>																		
	<u>90</u>	= Total Cover																
<u>Herb Stratum</u> (Plot size: <u>3m R</u>)																		
1. <u>Polystichum munitum</u>	<u>10</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Geum macrophyllum</u>	<u>5</u>	<u>X</u>	<u>FAC</u>															
3. <u>Athyrium cyclosum</u>	<u>5</u>	<u>X</u>	<u>FAC</u>															
4. <u> </u>																		
5. <u> </u>																		
6. <u> </u>																		
7. <u> </u>																		
8. <u> </u>																		
9. <u> </u>																		
10. <u> </u>																		
11. <u> </u>																		
	<u>20</u>	= Total Cover																
<u>Woody Vine Stratum</u> (Plot size: <u> </u> R)																		
1. <u> </u>				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>														
2. <u> </u>																		
			= Total Cover															
% Bare Ground in Herb Stratum <u> </u>																		
Remarks: <u> </u>																		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	5YR 2.5/2	100					Silt loam	mucky, high organics
4-16	10YR 3/1	70	5GY 5/1	15	C	M	Silt loam	
			5YR 3/4	15	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: Soils are moist and not saturated	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>zero</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks: Within seasonal drainage,	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 107
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.595506 Long: -124.042209 Datum: NAD83
 Soil Map Unit Name: 18G -Fendall-Templeton silt loams, 35 to 60 percent slopes NWI classification: Riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Sambucus racemosa</u>	15	1	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)	
2. <u>Tsuga heterophylla</u>	10	1	FACU	Total Number of Dominant Species Across All Strata: <u>6</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)	
4. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>	
5. _____					
25 = Total Cover					
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Alnus rubra</u>	60	1	FAC		
2. _____					
3. _____					
4. _____					
5. _____					
60 = Total Cover					
Herb Stratum (Plot size: <u>5' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. <u>Polystichum munitum</u>	10	1	FACU		
2. <u>Athyrium cyclosorum</u>	5	1	FAC		
3. <u>Blechnum spicant</u>	5	1	FAC		
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
20 = Total Cover					
Woody Vine Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____					
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks:				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	5yr 3/2	100						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: Flecks of sandstone mixed in soil

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 108
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terraces Local relief (concave, convex, none): none Slope (%): 0
 Subregion (LRR): A2 - Willamette Valley Lat: 44.593872 Long: -124.047522 Datum: NAD83
 Soil Map Unit Name: 42C, Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
_____ = Total Cover				
Sapling/Shrub Stratum				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
(Plot size: <u>30' R</u>)				
1. <u>Frangula purshiana</u>	<u>1</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_____ = Total Cover				
Herb Stratum				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
(Plot size: <u>5' R</u>)				
1. <u>Phalaris arundinacea</u>	<u>100</u>	<u>1</u>	<u>FACW</u>	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Carex obnupta</u>	<u>10</u>	_____	<u>OBL</u>	
3. _____	_____	_____	_____	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
_____ = Total Cover				
Woody Vine Stratum				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
(Plot size: <u>30' R</u>)				
1. <u>Rubus armeniacus</u>	<u>65</u>	_____	<u>FAC</u>	___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
Remarks: _____				

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 109
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 5
 Subregion (LRR): A2 - Willamette Valley Lat: 44.593544 Long: -124.047366 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Alnus rubra</u>	20	1	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
5. _____	_____	_____	_____	
<u>20</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>0</u>
_____ = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>Carex obnupta</u>	70	1	OBL	<u> </u> 1- Rapid Test For Hydrophytic Vegetation
2. <u>Lemna minor</u>	15	_____	OBL	<u>X</u> 2- Dominance Test is >50%
3. _____	_____	_____	_____	<u> </u> 3- Prevalence Index is ≤3.0 ¹
4. _____	_____	_____	_____	<u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____	<u> </u> 5- Wetland Non-Vascular Plants ¹
6. _____	_____	_____	_____	<u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain)
7. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	_____ = Total Cover % Bare Ground in Herb Stratum _____
11. _____	_____	_____	_____	
<u>85</u> = Total Cover				_____ = Total Cover % Bare Ground in Herb Stratum _____
_____ = Total Cover				
Remarks: _____				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10 yr 3/2	100					Sand loam	
6-12	10 yr 3/2	96	5 yr 4/6	4	C	M	Sand loam	
12-16	2.5y 5/1	95	7.5 yr 6/6	5	C	M	Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches): <u>NA</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): <u>surface</u>	
Saturation Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Depth (Inches): <u>surface</u>	

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 110
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.593527 Long: -124.047274 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Picea sitchensis</u>	<u>45</u>	<u>1</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. <u> </u>				Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. <u> </u>				
4. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B)
5. <u> </u>				
<u>45</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rubus spectabilis</u>	<u>5</u>	<u>1</u>	<u>FAC</u>	
2. <u> </u>				
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
<u>5</u> = Total Cover				
Herb Stratum (Plot size: <u>5' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Plantago lanceolata</u>	<u>40</u>	<u>1</u>	<u>FACU</u>	
2. <u>Ranunculus repens</u>	<u>10</u>		<u>FAC</u>	
3. <u>Trifolium longipes</u>	<u>10</u>		<u>FAC</u>	
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
10. <u> </u>				
11. <u> </u>				
<u>60</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rubus armeniacus</u>	<u>65</u>	<u>1</u>	<u>FAC</u>	
2. <u> </u>				
<u>65</u> = Total Cover				
% Bare Ground in Herb Stratum <u> </u>				
Prevalence Index = B/A = <u>0</u>				
Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>				
Remarks: <u> </u>				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 yr 2/2	100					Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 23-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 111
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.59262 Long: -124.047429 Datum: NAD83
 Soil Map Unit Name: 42 E - Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																
1. <u>Alnus rubra</u>	85	1	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)																
2. _____				Total Number of Dominant Species Across All Strata: <u>5</u> (B)																
3. _____																				
4. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.00</u> (A/B)																
5. _____																				
<u>85</u> = Total Cover				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>0</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = <u>0</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species _____	x 3= _____																			
FACU species _____	x 4= _____																			
UPL species _____	x 5= _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = <u>0</u>																				
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)																				
1. <u>Sambucus racemosa</u>	10	1	FACU																	
2. <u>Rubus parviflorus</u>	10	1	FACU																	
3. <u>Gaultheria shallon</u>	20	1	FACU																	
4. _____																				
5. _____																				
<u>40</u> = Total Cover																				
Herb Stratum (Plot size: <u>5' R</u>)																				
1. <u>Polystichum munitum</u>	20		FACU																	
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
<u>20</u> = Total Cover																				
Woody Vine Stratum (Plot size: <u>30' R</u>)																				
1. <u>Rubus armeniacus</u>	5	1	FAC																	
2. _____																				
<u>5</u> = Total Cover																				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">% Bare Ground in Herb Stratum _____</td> <td style="width: 40%;">Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> </tr> </table>				% Bare Ground in Herb Stratum _____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>															
% Bare Ground in Herb Stratum _____	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Hydrophytic Vegetation Present?</td> <td style="width: 40%;">Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> </tr> </table>				Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>															
Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																			
Remarks: _____																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	7.5 yr 2.5/2	50					Silt loam	
0-16	7.5 yr 4/4	50					Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 112
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): Concave Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.59243 Long: -124.04224 Datum: NAD83
 Soil Map Unit Name: 18G - Fendall-Templeton silt loams, 35 to 60 percent slopes NWI classification: Riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	(Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____					Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____					Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
4. _____					Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
= Total Cover					
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)					
1. <u>Rubus spectabilis</u>		<u>20</u>	<u>1</u>	<u>FAC</u>	
2. _____					
3. _____					
4. _____					
5. _____					
= Total Cover					
Herb Stratum (Plot size: <u>5' R</u>)					
1. <u>Lysichiton americanus</u>		<u>15</u>	<u>1</u>	<u>OBL</u>	
2. <u>Athyrium cyclosorum</u>		<u>10</u>	<u>1</u>	<u>FAC</u>	
3. <u>Blechnum spicant</u>		<u>15</u>	<u>1</u>	<u>FAC</u>	
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
= Total Cover					
Woody Vine Stratum (Plot size: <u>30' R</u>)					
1. _____					
2. _____					
= Total Cover					
% Bare Ground in Herb Stratum <u>40</u>					
Prevalence Index = B/A = <u>0</u>					
Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>					
Remarks: <u>Covered in upland hemlock canopy</u>					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10 yr 3/2	100					Sandy loam	
6-16	10 yr 4/1	100					Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: Sandstone layer at 4 inches in some locations. Strange soils

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>1</u>	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): _____	
(includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Small narrow seep that flows into stream

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 113
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): None Slope (%): 7
 Subregion (LRR): A2 - Willamette Valley Lat: 44.592436 Long: -124.042217 Datum: NAD83
 Soil Map Unit Name: 18G - Fendall-Templeton silt loams, 35 to 60 percent slopes NWI classification: Riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Tsuga heterophylla</u>	<u>70</u>	<u>1</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.00</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
<u>70</u> = Total Cover																		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Sambucus racemosa</u>	<u>10</u>	<u>1</u>	<u>FACU</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> </table> Prevalence Index = B/A = <u>0</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)
Total % Cover of:	Multiply by:																	
OBL species _____	x 1= _____																	
FACW species _____	x 2= _____																	
FAC species _____	x 3= _____																	
FACU species _____	x 4= _____																	
UPL species _____	x 5= _____																	
Column Totals: _____ (A)	_____ (B)																	
2. <u>Vaccinium parvifolium</u>	<u>20</u>	<u>1</u>	<u>FACU</u>															
3. _____																		
4. _____																		
5. _____																		
<u>30</u> = Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Blechnum spicant</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Athyrium cyclosorum</u>	<u>5</u>		<u>FAC</u>															
3. <u>Polystichum munitum</u>	<u>20</u>	<u>1</u>	<u>FACU</u>															
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____																		
<u>35</u> = Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														
2. _____																		
_____ = Total Cover																		
% Bare Ground in Herb Stratum _____																		
Remarks: _____																		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-11	Duff	100	Duff				Duff	
11-16	7.5 yr 4/1	100					Clay loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 114
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): Slope Local relief (concave, convex, none): None Slope (%): 7
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591879 Long: -124.042689 Datum: NAD83
 Soil Map Unit Name: 18G - Fendall-Templeton silt loams, 35 to 60 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Tsuga heterophylla</u>	40	1	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>6</u> (B)
3. _____				
4. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
	40 = Total Cover			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)				Prevalence Index worksheet:
1. <u>Rubus spectabilis</u>	30	1	FAC	
2. <u>Vaccinium parvifolium</u>	10		FACU	Total % Cover of: _____ Multiply by: _____
3. <u>Gaultheria shallon</u>	15	1	FACU	OBL species _____ x 1= _____
4. <u>Menziesia ferruginea</u>	1		FACU	FACW species _____ x 2= _____
5. _____				FAC species _____ x 3= _____
	56 = Total Cover			FACU species _____ x 4= _____
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)				UPL species _____ x 5= _____
1. <u>Blechnum spicant</u>	10	1	FAC	Column Totals: _____ (A) _____ (B)
2. <u>Athyrium cyclosorum</u>	5	1	FAC	Prevalence Index = B/A = <u>0</u>
3. <u>Polystichum munitum</u>	20	1	FACU	Hydrophytic Vegetation Indicators:
4. _____				
5. _____				<input type="checkbox"/> 1- Rapid Test For Hydrophytic Vegetation
6. _____				<input type="checkbox"/> 2- Dominance Test is >50%
7. _____				<input type="checkbox"/> 3- Prevalence Index is ≤3.0 ¹
8. _____				<input type="checkbox"/> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9. _____				<input type="checkbox"/> 5- Wetland Non-Vascular Plants ¹
10. _____				<input type="checkbox"/> 6- Problematic Hydrophytic Vegetation ¹ (Explain)
11. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	35 = Total Cover			Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)				
1. _____				
2. _____				
% Bare Ground in Herb Stratum _____				
Remarks:				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	7.5yr 2.5/3	100					Loam	Wood mixed in
5-16	7.5yr 2.5/2	100					Sand loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 115
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): Concave Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.584943 Long: -124.050217 Datum: NAD83
 Soil Map Unit Name: 14B - Depoe loam, 0 to 7 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Tsuga heterophylla</u>	<u>60</u>	<u>1</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
<u>60</u> = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Rubus spectabilis</u>	<u>40</u>	<u>1</u>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>0</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = <u>0</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species _____	x 3= _____																			
FACU species _____	x 4= _____																			
UPL species _____	x 5= _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = <u>0</u>																				
2. _____																				
3. _____																				
4. _____																				
<u>40</u> = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																				
1. <u>Lysichiton americanus</u>	<u>15</u>	<u>1</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
<u>15</u> = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. _____																				
_____ = Total Cover																				
% Bare Ground in Herb Stratum <u>50</u>																				
Remarks: _____																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10 yr 2/2	100					Sandy loam	
5-16	10 yr 4/3	98	7.5 yr 5/6	2	C	PI	Sandy loam	Very sandy

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present? Yes No Depth (Inches): _____

Water Table Present? Yes No Depth (Inches): 6

Saturation Present? Yes No Depth (Inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Seeps throughout wetland

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 116
 Investigator(s): L. Johnson, A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): Concave Slope (%): 0
 Subregion (LRR): A2 - Willamette Valley Lat: 44.5849481167 Long: -124.050231017 Datum: NAD83
 Soil Map Unit Name: Depoe loam, 0 to 7 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u> <u>Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile</u> <u>Within seasonal drainage, no hydrology.</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Plot size:	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	<u>10m R</u>	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____		_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>6</u> (B)
3. _____		_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
4. _____		_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____
= Total Cover					
Sapling/Shrub Stratum (Plot size: <u>5m R</u>)					
1. <u>Rubus parviflorus</u>		<u>15</u>	<u>X</u>	<u>FACU</u>	OBL species _____ x 1= _____
2. _____		_____	_____	_____	FACW species <u>70</u> x 2= <u>140</u>
3. _____		_____	_____	_____	FAC species <u>90</u> x 3= <u>270</u>
4. _____		_____	_____	_____	FACU species <u>25</u> x 4= <u>100</u>
5. <u>Cytisus scoparius</u>		<u>40</u>	<u>X</u>	<u>NL</u>	UPL species _____ x 5= _____
= Total Cover					Column Totals: <u>185</u> (A) <u>510</u> (B)
Herb Stratum (Plot size: <u>3m R</u>)					
1. <u>Phalaris arundinacea</u>		<u>70</u>	<u>X</u>	<u>FACW</u>	Prevalence Index = B/A = <u>2.76</u>
2. <u>Plantago lanceolata</u>		<u>10</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: _____ 1- Rapid Test For Hydrophytic Vegetation _____ 2- Dominance Test is >50% <u>X</u> 3- Prevalence Index is ≤3.0 ¹ _____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ 5- Wetland Non-Vascular Plants ¹ _____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. <u>Agrostis capillaris</u>		<u>30</u>	<u>X</u>	<u>FAC</u>	
4. _____		_____	_____	_____	
5. _____		_____	_____	_____	
6. _____		_____	_____	_____	
7. _____		_____	_____	_____	
8. _____		_____	_____	_____	
9. _____		_____	_____	_____	
10. _____		_____	_____	_____	
11. _____		_____	_____	_____	
= Total Cover					
Woody Vine Stratum (Plot size: _____ R)					
1. <u>Rubus armeniacus</u>		<u>60</u>	<u>X</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____		_____	_____	_____	
= Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks: _____					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 yr 3/3	100					Silt loam	
4-16	10 yr 3/3	95	7.5 yr 5/8	5	C	M	Sandy loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Indicators for Problematic Hydric Soils:

Hydric Soil Present? Yes No

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Remarks: Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (Inches): <u>NA</u>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (Inches): <u>>16</u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (Inches): <u>>16</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: Within seasonal drainage, no hydrology.

SOIL

Sampling Point: SP117B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100					Silt loam	mucky, high organics

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 117A
 Investigator(s): L. Johnson, A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.591423 Long: -124.04759 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>10m R</u>)				
1. <u>Frangula purshiana</u>	<u>55</u>	<u>X</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
2. _____				
3. _____				
4. _____				
	<u>55</u>	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>5m R</u>)				
1. <u>Vaccinium parvifolium</u>	<u>15</u>	<u>X</u>	<u>FACU</u>	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>65</u> x 3= <u>195</u> FACU species <u>25</u> x 4= <u>100</u> UPL species _____ x 5= _____ Column Totals: <u>90</u> (A) <u>295</u> (B) Prevalence Index = B/A = <u>3.28</u>
2. <u>Rubus spectabilis</u>	<u>5</u>	<u>X</u>	<u>FAC</u>	
3. <u>Sambucus racemosa</u>	<u>5</u>	<u>X</u>	<u>FACU</u>	
4. _____				
5. _____				
	<u>25</u>	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>3m R</u>)				
1. <u>Polystichum munitum</u>	<u>5</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation ____ 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Athyrium cyclosorum</u>	<u>5</u>	<u>X</u>	<u>FAC</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	<u>10</u>	= Total Cover		
<u>Woody Vine Stratum</u> (Plot size: _____ R)				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
= Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks:				

SOIL

Sampling Point: 117A

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10 yr 2/2						Silt loam	
5-16	10 yr 2/1	99	5 yr 3/4	1	C	M	Silt loam	Sandstone flecks

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery(B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Other (Explain in Remarks)
	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 yr3/3	100					Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 119
 Investigator(s): L. Johnson, A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 15
 Subregion (LRR): A2 - Willamette Valley Lat: 44.588477 Long: -124.046421 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>10m R</u>)																				
1. <u>Alnus rubra</u>	30	X	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)																
2. <u>Tsuga heterophylla</u>	40	X	FACU																	
3. <u>Pseudotsuga menziesii</u>	40	X	FACU																	
4. _____																				
	110	= Total Cover																		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>5m R</u>)																				
1. _____				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3= <u>90</u></td> </tr> <tr> <td>FACU species <u>80</u></td> <td>x 4= <u>320</u></td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: <u>110</u> (A)</td> <td><u>410</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.73</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species <u>30</u>	x 3= <u>90</u>	FACU species <u>80</u>	x 4= <u>320</u>	UPL species _____	x 5= _____	Column Totals: <u>110</u> (A)	<u>410</u> (B)	Prevalence Index = B/A = <u>3.73</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species <u>30</u>	x 3= <u>90</u>																			
FACU species <u>80</u>	x 4= <u>320</u>																			
UPL species _____	x 5= _____																			
Column Totals: <u>110</u> (A)	<u>410</u> (B)																			
Prevalence Index = B/A = <u>3.73</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
<u>Herb Stratum</u> (Plot size: <u>3m R</u>)																				
1. _____				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
<u>Woody Vine Stratum</u> (Plot size: _____ R)																				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
2. _____																				
_____ = Total Cover																				
% Bare Ground in Herb Stratum <u>100</u>																				
Remarks: _____																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	5YR 3/3	100					Silt loam	
5-16	7.5YR 3/3	95	7.5YR 4/6	5	C	M	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 120
 Investigator(s): L. Johnson, A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.58974087 Long: -124.0475925 Datum: NAD83
 Soil Map Unit Name: Lint silt loam, 5 to 25 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>		
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>		
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
(Plot size: <u>10m R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)	
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
_____ = Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)	
Sapling/Shrub Stratum					
(Plot size: <u>5m R</u>)					
1. <u>Rubus armeniacus</u>	<u>5</u>	<u>X</u>	<u>FAC</u>		
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____		
<u>5</u> = Total Cover				Total % Cover of: _____ Multiply by: _____	
Herb Stratum				OBL species _____ x 1= _____	
(Plot size: <u>3m R</u>)				FACW species _____ x 2= _____	
1. <u>Juncus effusus</u>	<u>75</u>	<u>X</u>	<u>FACW</u>	FAC species _____ x 3= _____	
2. <u>Lotus corniculatus</u>	<u>15</u>	_____	<u>FAC</u>	FACU species _____ x 4= _____	
3. <u>Agrostis capillaris</u>	<u>40</u>	<u>X</u>	<u>FAC</u>	UPL species _____ x 5= _____	
4. _____	_____	_____	_____	Column Totals: _____ (A) _____ (B)	
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>0</u>	
6. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
7. _____	_____	_____	_____		_____ 1- Rapid Test For Hydrophytic Vegetation
8. _____	_____	_____	_____		<u>X</u> 2- Dominance Test is >50%
9. _____	_____	_____	_____		_____ 3- Prevalence Index is ≤3.0 ¹
10. _____	_____	_____	_____		_____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
11. _____	_____	_____	_____		_____ 5- Wetland Non-Vascular Plants ¹
<u>130</u> = Total Cover				_____ 6- Problematic Hydrophytic Vegetation ¹ (Explain)	
Woody Vine Stratum				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
(Plot size: _____ R)					
1. _____	_____	_____	_____	Hydrophytic Vegetation Present?	
2. _____	_____	_____	_____		Yes <u>X</u> No _____
_____ = Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks: _____					

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 121
 Investigator(s): A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.58972257 Long: -124.0476492 Datum: NAD83
 Soil Map Unit Name: Lint silt loam, 5 to 25 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>10m R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover	_____	_____	_____	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: <u>5m R</u>)				
1. <u>Gaultheria shallon</u>	<u>2</u>	<u>X</u>	<u>FACU</u>	OBL species _____ x 1= _____
2. <u>Rubus armeniacus</u>	<u>3</u>	<u>X</u>	<u>FAC</u>	FACW species _____ x 2= _____
3. <u>Vaccinium ovatum</u>	<u>5</u>	<u>X</u>	<u>FACU</u>	FAC species <u>3</u> x 3= <u>9</u>
4. _____	_____	_____	_____	FACU species <u>43</u> x 4= <u>172</u>
5. _____	_____	_____	_____	UPL species _____ x 5= _____
_____ = Total Cover	<u>10</u>	_____	_____	Column Totals: <u>46</u> (A) <u>181</u> (B)
Herb Stratum (Plot size: <u>3m R</u>)				Prevalence Index = B/A = <u>3.93</u>
1. <u>Plantago lanceolata</u>	<u>5</u>	_____	<u>FACU</u>	Hydrophytic Vegetation Indicators: _____ 1- Rapid Test For Hydrophytic Vegetation _____ 2- Dominance Test is >50% _____ 3- Prevalence Index is ≤3.0 ¹ _____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ 5- Wetland Non-Vascular Plants ¹ _____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Polystichum munitum</u>	<u>1</u>	_____	<u>FACU</u>	
3. <u>Agrostis capillaris</u>	<u>30</u>	<u>X</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
_____ = Total Cover	<u>36</u>	_____	_____	
Woody Vine Stratum (Plot size: _____ R)				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover	_____	_____	_____	
% Bare Ground in Herb Stratum _____				
Remarks: _____				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-13	10 yr 3/2	100					Silt loam	
13-16	10 yr 3/1	100					Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 122
 Investigator(s): A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.58808823 Long: -124.0521193 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>10m R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																
1. <u>Alnus rubra</u>	95	X	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)																
2. <u> </u>				Total Number of Dominant Species Across All Strata: <u>4</u> (B)																
3. <u> </u>																				
4. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B)																
5. <u> </u>																				
<u>95</u> = Total Cover				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1= <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2= <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3= <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4= <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5= <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>0</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1= <u> </u>	FACW species <u> </u>	x 2= <u> </u>	FAC species <u> </u>	x 3= <u> </u>	FACU species <u> </u>	x 4= <u> </u>	UPL species <u> </u>	x 5= <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)	Prevalence Index = B/A = <u>0</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1= <u> </u>																			
FACW species <u> </u>	x 2= <u> </u>																			
FAC species <u> </u>	x 3= <u> </u>																			
FACU species <u> </u>	x 4= <u> </u>																			
UPL species <u> </u>	x 5= <u> </u>																			
Column Totals: <u> </u> (A)	<u> </u> (B)																			
Prevalence Index = B/A = <u>0</u>																				
Sapling/Shrub Stratum (Plot size: <u>5m R</u>)																				
1. <u>Vaccinium parvifolium</u>	20	X	FACU																	
2. <u>Rubus spectabilis</u>	15	X	FAC																	
3. <u> </u>																				
4. <u> </u>																				
5. <u> </u>																				
<u>35</u> = Total Cover																				
Herb Stratum (Plot size: <u>3m R</u>)																				
1. <u>Lysichiton americanus</u>	10	X	OBL																	
2. <u>Polystichum munitum</u>	1		FACU																	
3. <u> </u>																				
4. <u> </u>																				
5. <u> </u>																				
6. <u> </u>																				
7. <u> </u>																				
8. <u> </u>																				
9. <u> </u>																				
10. <u> </u>																				
11. <u> </u>																				
<u>11</u> = Total Cover																				
Woody Vine Stratum (Plot size: <u> </u> R)																				
1. <u> </u>																				
2. <u> </u>																				
= Total Cover																				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">% Bare Ground in Herb Stratum <u> </u></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 30%;">Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u></td> </tr> </table>				% Bare Ground in Herb Stratum <u> </u>				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>												
% Bare Ground in Herb Stratum <u> </u>				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
Remarks: <u> </u>																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10 yr 2/1	100					Mucky sand	high organics
10-16	10yr 3/1	100					Loamy sand	high organics

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>11</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 123
 Investigator(s): A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 15
 Subregion (LRR): A2 - Willamette Valley Lat: 44.5880278 Long: -124.0521308 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Remarks: <u>On steep slope that drains well, geology is permeable bedrock, dug on table that likely perches water</u> <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>10m R</u>)				
1. <u>Alnus rubra</u>	15		FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
2. <u>Tsuga heterophylla</u>	20		FACU	
3. <u>Pseudotsuga menziesii</u>	75	X	FACU	
4. _____				
	110 = Total Cover			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>5m R</u>)				
1. <u>Vaccinium parvifolium</u>	20	X	FACU	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>15</u> x 3= <u>45</u> FACU species <u>145</u> x 4= <u>580</u> UPL species _____ x 5= _____ Column Totals: <u>160</u> (A) <u>625</u> (B) Prevalence Index = B/A = <u>3.91</u>
2. <u>Vaccinium ovatum</u>	15	X	FACU	
3. <u>Gaultheria shallon</u>	15	X	FACU	
4. _____				
5. _____				
	50 = Total Cover			
<u>Herb Stratum</u> (Plot size: <u>3m R</u>)				
1. _____				Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation <input checked="" type="checkbox"/> 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
	_____ = Total Cover			
<u>Woody Vine Stratum</u> (Plot size: _____ R)				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
	_____ = Total Cover			
% Bare Ground in Herb Stratum <u>60</u>				

Remarks: On steep slope that drains well, geology is permeable bedrock, dug on table that likely perches water

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	7.5yr 2.5/2	100					Sand loam	
2-4	10yr 2/1	100					Sand loam	
4-16	10yr 3/1	100					Sand loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>2</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 124
 Investigator(s): A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 15
 Subregion (LRR): A2 - Willamette Valley Lat: 44.58785823 Long: -124.0523372 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>x</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:																
1. <u>Pinus contorta</u>	15	x	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)																
2. <u>Tsuga heterophylla</u>	15	x	FACU																	
3. <u>Alnus rubra</u>	35	X	FAC	Total Number of Dominant Species Across All Strata: <u>7</u> (B)																
4. <u>Picea sitchensis</u>	15	x	FAC																	
5. <u>Frangula purshiana</u>	15	x	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>57.14</u> (A/B)																
	95 = Total Cover																			
Sapling/Shrub Stratum (Plot size: <u>5m R</u>)				Prevalence Index worksheet:																
1. <u>Rubus spectabilis</u>	5		FAC																	
2. <u>Rubus parviflorus</u>	10		FACU	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1= <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2= <u> </u></td> </tr> <tr> <td>FAC species <u>60</u></td> <td>x 3= <u>180</u></td> </tr> <tr> <td>FACU species <u>73</u></td> <td>x 4= <u>292</u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5= <u> </u></td> </tr> <tr> <td>Column Totals: <u>133</u> (A)</td> <td><u>472</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>3.55</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1= <u> </u>	FACW species <u> </u>	x 2= <u> </u>	FAC species <u>60</u>	x 3= <u>180</u>	FACU species <u>73</u>	x 4= <u>292</u>	UPL species <u> </u>	x 5= <u> </u>	Column Totals: <u>133</u> (A)	<u>472</u> (B)	Prevalence Index = B/A = <u>3.55</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1= <u> </u>																			
FACW species <u> </u>	x 2= <u> </u>																			
FAC species <u>60</u>	x 3= <u>180</u>																			
FACU species <u>73</u>	x 4= <u>292</u>																			
UPL species <u> </u>	x 5= <u> </u>																			
Column Totals: <u>133</u> (A)	<u>472</u> (B)																			
Prevalence Index = B/A = <u>3.55</u>																				
3. <u>Gaultheria shallon</u>	45	X	FACU																	
4. <u>Rubus ursinus</u>	5		FACU																	
5. <u>Rubus armeniacus</u>	5		FAC																	
6. <u>Cytisus scoparius</u>	10		NL																	
	70 = Total Cover																			
Herb Stratum (Plot size: <u>3m R</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Pteridium aquilinum</u>	3	X	FACU																	
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
5. <u> </u>																				
6. <u> </u>																				
7. <u> </u>																				
8. <u> </u>																				
9. <u> </u>																				
10. <u> </u>																				
11. <u> </u>																				
	3 = Total Cover																			
Woody Vine Stratum (Plot size: <u> </u> R)																				
1. <u> </u>																				
2. <u> </u>																				
% Bare Ground in Herb Stratum <u>60</u>																				
= Total Cover																				
Hydrophytic Vegetation Present? Yes <u>x</u> No <u> </u>																				
Remarks: <u> </u>																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	7.5yr 3/3	100					Sand loam	
4-16	10yr 3/4	100					Loamy sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks: _____	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 125
 Investigator(s): A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): roadside ditch Local relief (concave, convex, none): concave Slope (%): 0
 Subregion (LRR): A2 - Willamette Valley Lat: 44.58787573 Long: -124.0524046 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: <u>ditch like feature with veg that is barely upland</u> <u>Recorded precipitation in previous months was below normal range</u> <u>Roadside ditch slope wetland. Hydro from slope seeps and road runoff. Surface water present in wetland.</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Frangula purshiana</u>	15		FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)	
2. <u>Tsuga heterophylla</u>	20		FACU	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. <u>Alnus rubra</u>	75	X	FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.00</u> (A/B)	
4. _____				Prevalence Index worksheet:	
5. _____					
110 = Total Cover				Total % Cover of: _____ Multiply by: _____	
Sapling/Shrub Stratum (Plot size: <u>5m R</u>)				OBL species _____ x 1= _____	
1. <u>Rubus spectabilis</u>	5		FAC	FACW species _____ x 2= _____	
2. <u>Rubus parviflorus</u>	10	x	FACU	FAC species <u>70</u> x 3= <u>210</u>	
3. <u>Gaultheria shallon</u>	30	X	FACU	FACU species <u>63</u> x 4= <u>252</u>	
4. _____				UPL species _____ x 5= _____	
5. _____				Column Totals: <u>133</u> (A) <u>462</u> (B)	
45 = Total Cover				Prevalence Index = B/A = <u>3.47</u>	
Herb Stratum (Plot size: <u>3m R</u>)				Hydrophytic Vegetation Indicators:	
1. <u>Blechnum spicant</u>	50	X	FAC	<input type="checkbox"/> 1- Rapid Test For Hydrophytic Vegetation	
2. <u>Pteridium aquilinum</u>	3		FACU	<input type="checkbox"/> 2- Dominance Test is >50%	
3. _____				<input type="checkbox"/> 3- Prevalence Index is ≤3.0 ¹	
4. _____				<input type="checkbox"/> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____				<input type="checkbox"/> 5- Wetland Non-Vascular Plants ¹	
6. _____				<input type="checkbox"/> 6- Problematic Hydrophytic Vegetation ¹ (Explain)	
7. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. _____					
9. _____					
10. _____					
11. _____					
53 = Total Cover					
Woody Vine Stratum (Plot size: _____ R)				Hydrophytic Vegetation Present?	
1. _____				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>25</u>					
Remarks: <u>ditch like feature with veg that is barely upland</u>					

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 126
 Investigator(s): A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Concave Slope (%): 0
 Subregion (LRR): A2 - Willamette Valley Lat: 44.58734367 Long: -124.0567068 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 12 to 50 percent slopes NWI classification: PSSC
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>10m R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Alnus rubra</u>	55	X	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. <u> </u>				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. <u> </u>				
4. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.00</u> (A/B)
5. <u> </u>				
<u>55</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
Sapling/Shrub Stratum (Plot size: <u>5m R</u>) 1. <u>Rubus ursinus</u> 10 X FACU 2. <u>Rubus armeniacus</u> 10 X FAC 3. <u>Lonicera involucrata</u> 20 X FAC 4. <u> </u> 5. <u> </u> _____ = Total Cover				
Herb Stratum (Plot size: <u>3m R</u>) 1. <u>Athyrium cyclosorum</u> 5 FAC 2. <u>Carex obnupta</u> 95 X OBL 3. <u> </u> 4. <u> </u> 5. <u> </u> 6. <u> </u> 7. <u> </u> 8. <u> </u> 9. <u> </u> 10. <u> </u> 11. <u> </u> _____ = Total Cover				
Woody Vine Stratum (Plot size: <u> </u> R) 1. <u> </u> 2. <u> </u> _____ = Total Cover				
% Bare Ground in Herb Stratum <u> </u>				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation X 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
Remarks: <u> </u>				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10yr 2/1	50	7.5yr 5/8	5	C	M	Sandy loam	Mucky with high organic conter
	10yr 4/2	45					Sandy loam	
3-16	10 yr 5/2	85	7.5yr 5/8	15	C	M, pl	Sandy loam	Mucky and greasy with high org

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>10</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>Surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 127
 Investigator(s): A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): Convex Slope (%): 10
 Subregion (LRR): A2 - Willamette Valley Lat: 44.587344 Long: -124.056707 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>10m R</u>)				
1. <u>Tsuga heterophylla</u>	90	X	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
2. <u>Pseudotsuga menziesii</u>	15		FACU	
3. <u>Frangula purshiana</u>	15		FAC	
4. _____				
	120	= Total Cover		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>5m R</u>)				
1. <u>Gaultheria shallon</u>	35	X	FACU	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species <u>15</u> x 3= <u>45</u> FACU species <u>140</u> x 4= <u>560</u> UPL species _____ x 5= _____ Column Totals: <u>155</u> (A) <u>605</u> (B) Prevalence Index = B/A = <u>3.90</u>
2. _____				
3. _____				
4. _____				
5. _____				
	35	= Total Cover		
<u>Herb Stratum</u> (Plot size: <u>3m R</u>)				
1. _____				Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation ____ 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
<u>Woody Vine Stratum</u> (Plot size: _____ R)				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks: _____				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	Organic duff							
3-13	10yr 4/4	100					Sandy loam	Small pebbles of decaying sand
13-16	10yr 2/2	100					Sandy loam	Organic buried a horizon

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available</p>	
<p>Remarks: _____</p>	

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10yr 2/1	100					Silt loam	High organics
3-14	10yr 3/1	100					Sand loam	High organics
14-16	10yr 4/1	100					Loamy sand	High organics

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>11</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>Surface</u>	
(includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 129
 Investigator(s): L. Johnson, A. Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 20
 Subregion (LRR): A2 - Willamette Valley Lat: 44.565239 Long: -124.059369 Datum: NAD83
 Soil Map Unit Name: Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>10m R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Tsuga heterophylla</u>	<u>95</u>	<u>X</u>	<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)	
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.00</u> (A/B)	
4. _____					
5. _____					
<u>95</u> = Total Cover					
<u>Sapling/Shrub Stratum</u> (Plot size: <u>5m R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:	
1. <u>Gaultheria shallon</u>	<u>10</u>	<u>X</u>	<u>FACU</u>	Total % Cover of: _____ Multiply by: _____	
2. _____				OBL species _____ x 1= _____	
3. _____				FACW species _____ x 2= _____	
4. _____				FAC species <u>2</u> x 3= <u>6</u>	
5. _____				FACU species <u>108</u> x 4= <u>432</u>	
6. _____				UPL species _____ x 5= _____	
7. _____				Column Totals: <u>110</u> (A) <u>438</u> (B)	
8. _____				Prevalence Index = B/A = <u>3.98</u>	
9. _____					
10. _____					
11. _____					
<u>10</u> = Total Cover					
<u>Herb Stratum</u> (Plot size: <u>3m R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:	
1. <u>Menziesia ferruginea</u>	<u>3</u>	<u>X</u>	<u>FACU</u>	<input type="checkbox"/> 1- Rapid Test For Hydrophytic Vegetation	
2. <u>Blechnum spicant</u>	<u>2</u>	<u>X</u>	<u>FAC</u>	<input type="checkbox"/> 2- Dominance Test is >50%	
3. _____				<input type="checkbox"/> 3- Prevalence Index is ≤3.0 ¹	
4. _____				<input type="checkbox"/> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5. _____				<input type="checkbox"/> 5- Wetland Non-Vascular Plants ¹	
6. _____				<input type="checkbox"/> 6- Problematic Hydrophytic Vegetation ¹ (Explain)	
7. _____				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. _____					
9. _____					
10. _____					
11. _____					
<u>5</u> = Total Cover					
<u>Woody Vine Stratum</u> (Plot size: _____ R)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?	
1. _____				Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
2. _____					
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>85</u>					
Remarks: _____					

SOIL

Sampling Point: 129

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	Duff						Duff	
3-6	7.5yr 2.5/2	100					Silt loam	Many roots
6-16	7.5yr 2.5/2	100					Sandy loam	Many decaying sandstone bed

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	
<input type="checkbox"/> Thick Dark Surface (A12)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	
<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Redox Depressions (F8)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches): <u>NA</u>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches): <u>NA</u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (Inches): <u>NA</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 130
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): concave Slope (%): 3
 Subregion (LRR): A2 - Willamette Vallet Lat: 44.5712 Long: -124.057079 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Alnus rubra</u>	60	1	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. <u> </u>				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. <u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.00</u> (A/B)
4. <u> </u>				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
60 = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Alnus rubra</u>	10	1	FAC	
2. <u>Gaultheria shallon</u>	25	1	FACU	
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
35 = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Athyrium cyclosorum</u>	5	1	FAC	
2. <u>Carex obnupta</u>	1		OBL	
3. <u> </u>				
4. <u> </u>				
5. <u> </u>				
6. <u> </u>				
7. <u> </u>				
8. <u> </u>				
9. <u> </u>				
6 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Rubus armeniacus</u>	40	1	FAC	
2. <u> </u>				
40 = Total Cover				
% Bare Ground in Herb Stratum <u> </u>				
Remarks:				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	7.5 yr 3/2						Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 131
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): A2 - Willamette Vallet Lat: 44.571228 Long: -124.057063 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)	
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
2. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)	
3. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>	
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)					
1. _____	_____	_____	_____	Hydrophytic Vegetation Indicators: _____ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% _____ 3- Prevalence Index is ≤3.0 ¹ _____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ 5- Wetland Non-Vascular Plants ¹ _____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	_____	_____	_____		
_____ = Total Cover					
Herb Stratum (Plot size: <u>5' R</u>)					
1. <u>Athyrium cyclosorum</u>	<u>5</u>	_____	<u>FAC</u>		
2. <u>Carex obnupta</u>	<u>40</u>	<u>1</u>	<u>OBL</u>		
3. <u>Lemna minor</u>	<u>20</u>	<u>1</u>	<u>OBL</u>		
4. <u>Maianthemum racemosum</u>	<u>20</u>	<u>1</u>	<u>FAC</u>		
5. <u>Oenanthe sarmentosa</u>	<u>5</u>	_____	<u>OBL</u>		
6. _____	_____	_____	_____		
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
<u>90</u> = Total Cover					
Woody Vine Stratum (Plot size: <u>30' R</u>)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
_____ = Total Cover					
% Bare Ground in Herb Stratum <u>40</u>					
Hydrophytic Vegetation Present? Yes <u>X</u> No _____					
Remarks: _____					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10 yr 2/1	95	7.5 yr 5/7	5	C	PI	Muck	
2-6	10 yr 3/1	100					Silt loam	
6-16	10 yr 4/1	100					Sand loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>4</u>	
Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>zero</u>	
(includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 132
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): concave Slope (%): 2
 Subregion (LRR): A2 - Willamette Valley Lat: 44.570731 Long: -124.057855 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Alnus rubra</u>	20	1	FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)																
2. _____																				
3. _____																				
4. <u>Willow sp</u>	10	1	FAC																	
	<u>30</u> = Total Cover																			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																				
1. _____				Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>0</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = <u>0</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species _____	x 3= _____																			
FACU species _____	x 4= _____																			
UPL species _____	x 5= _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = <u>0</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
	_____ = Total Cover																			
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																				
1. <u>Athyrium cyclosorum</u>	5		FAC	Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Carex obnupta</u>	80	1	OBL																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____	5																			
	<u>90</u> = Total Cover																			
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
2. _____																				
	_____ = Total Cover																			
% Bare Ground in Herb Stratum _____																				
Remarks: _____																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10 yr 2/2	100					Silt loam	Mucky
8-16	10 yr 4/1	90	5 yr 5/8	10	C	PI	Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>10</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>surface</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	
Remarks: _____	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 133
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): concave Slope (%): 2
 Subregion (LRR): A2 - Willamette Valley Lat: 44.570707 Long: -124.057922 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: Riverine
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Tsuga heterophylla</u>	60	1	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)																
2. <u>Frangula purshiana</u>	20	1	FAC																	
3. _____																				
4. _____																				
80 = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Alnus rubra</u>	5		FAC	Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>0</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = <u>0</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species _____	x 3= _____																			
FACU species _____	x 4= _____																			
UPL species _____	x 5= _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = <u>0</u>																				
2. <u>Gaultheria shallon</u>	40	1	FACU																	
3. <u>Rubus spectabilis</u>	10		FAC																	
4. <u>Vaccinium parvifolium</u>	5		FACU																	
5. <u>Frangula purshiana</u>	10																			
70 = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																				
1. _____				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
_____ = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
2. _____																				
_____ = Total Cover																				
% Bare Ground in Herb Stratum _____																				
Remarks: _____																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	Duff						Duff	
5-16	10 yr 3/4	100					Silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 134
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): convex Slope (%): 0
 Subregion (LRR): A2 - Willamette Valley Lat: 44.570696 Long: -124.060372 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>		Yes <u>X</u>	No <u> </u>
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>		Yes <u>X</u>	No <u> </u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>					

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status															
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																		
1. <u>Alnus rubra</u>	<u>40</u>	<u>1</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)														
2. _____																		
3. _____																		
4. _____																		
<u>40</u> = Total Cover																		
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																		
1. _____				Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> </table> Prevalence Index = B/A = <u>0</u>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)
Total % Cover of:	Multiply by:																	
OBL species _____	x 1= _____																	
FACW species _____	x 2= _____																	
FAC species _____	x 3= _____																	
FACU species _____	x 4= _____																	
UPL species _____	x 5= _____																	
Column Totals: _____ (A)	_____ (B)																	
2. _____																		
3. _____																		
4. _____																		
5. _____																		
_____ = Total Cover																		
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																		
1. <u>Lysichiton americanus</u>	<u>5</u>		<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% <u> </u> 3- Prevalence Index is ≤3.0 ¹ <u> </u> 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> 5- Wetland Non-Vascular Plants ¹ <u> </u> 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
2. <u>Carex obnupta</u>	<u>60</u>	<u>1</u>	<u>OBL</u>															
3. _____																		
4. _____																		
5. _____																		
6. _____																		
7. _____																		
8. _____																		
9. _____																		
10. _____																		
11. _____	<u>5</u>																	
<u>70</u> = Total Cover																		
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																		
1. _____				Hydrophytic Vegetation Present?														
2. _____																		
_____ = Total Cover				Yes <u>X</u> No <u> </u>														
% Bare Ground in Herb Stratum <u>30</u>																		
Remarks: _____																		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10 yr 2/2	95	7.5 yr 4/6	5	C	PI/m	Silt loam	
4-16	10 yr 3/2	85	5 yr 4/6	15	C	PI	Silt loam	Lots of organic material

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>5</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/2	100					Sand loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 136
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): _____ Slope (%): 3
 Subregion (LRR): floodplain Lat: 44.589045 Long: -124.059213 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No X (If no, explain in Remarks.)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Alnus rubra</u>	5	1	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)	
2. _____				Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)	
4. _____				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>	
5. _____	5	= Total Cover			
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)					
1. <u>Malus fusca</u>	5		FACW	Hydrophytic Vegetation Indicators: _____ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% _____ 3- Prevalence Index is ≤3.0 ¹ _____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ 5- Wetland Non-Vascular Plants ¹ _____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
2. <u>Gaultheria shallon</u>	5		FACU		
3. <u>Spiraea douglasii</u>	20	1	FACW		
4. <u>Lonicera involucrata</u>	20	1	FAC		
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____	50	= Total Cover			
Herb Stratum (Plot size: <u>5' R</u>)					
1. <u>Blechnum spicant</u>	10		FAC	Hydrophytic Vegetation Present? Yes <u>X</u> No _____	
2. <u>Athyrium cyclosorum</u>	10		FAC		
3. <u>Carex obnupta</u>	50	1	OBL		
4. _____					
5. _____					
6. _____					
7. _____					
8. _____					
9. _____					
10. _____					
11. _____					
_____	70	= Total Cover			
Woody Vine Stratum (Plot size: <u>30' R</u>)					
1. _____					
2. _____					

= Total Cover					
% Bare Ground in Herb Stratum _____					
Remarks:					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-5	10YR 2/2	100					silt loam	
5-16	10YR 4/1	80	7.5YR 4/6	20	C	PL	silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input checked="" type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input checked="" type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators (minimum of one required; check all that apply)</p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input checked="" type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (Inches): <u>5</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>
<p>Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available</p>	
<p>Remarks: _____</p>	

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 25-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 137
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.589009 Long: -124.059289 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: PFO
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		Yes <u> </u> No <u>X</u>
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____ = Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75.00</u> (A/B)
Sapling/Shrub Stratum				
(Plot size: <u>30' R</u>)				
1. <u>Rubus parviflorus</u>	<u>10</u>	<u>1</u>	<u>FACU</u>	
2. <u>Gaultheria shallon</u>	<u>30</u>	<u>1</u>	<u>FACU</u>	
3. <u>Spiraea douglasii</u>	<u>20</u>	<u>1</u>	<u>FACW</u>	
4. <u>Lonicera involucrata</u>	<u>10</u>	_____	<u>FAC</u>	
5. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
Herb Stratum				
(Plot size: <u>5' R</u>)				
1. <u>Equisetum arvense</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	
2. <u>Athyrium cyclosorum</u>	<u>5</u>	<u>1</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
_____ = Total Cover				
Woody Vine Stratum				
(Plot size: <u>30' R</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks: _____				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	c
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100					fill/gravel	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: <u>fill</u> Depth (inches): <u>6</u>	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:		Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u>	
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>	
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks:

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 138
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.585897 Long: -124.048845 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
(Plot size: <u>30' R</u>)				Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
1. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
= Total Cover				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
Sapling/Shrub Stratum (Plot size: <u>30' R</u>)				
1. <u>Alnus rubra</u>	<u>40</u>	<u>1</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
= Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
Herb Stratum (Plot size: <u>5' R</u>)				
1. <u>Holcus lanatus</u>	<u>5</u>	_____	<u>FAC</u>	
2. <u>Equisetum arvense</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	
3. <u>Juncus effusus</u>	<u>20</u>	<u>1</u>	<u>FACW</u>	
4. <u>Blechnum spicant</u>	<u>5</u>	_____	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
= Total Cover				
Woody Vine Stratum (Plot size: <u>30' R</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
= Total Cover				
% Bare Ground in Herb Stratum <u>50</u>				
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>				
Remarks: <u>slough sedge concentration in center of wetland</u>				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/1	100					sand loam	greasy texture
6-11	10YR 2/1	100					Sand loam	
11-16	2.5Y 5/6	96	2.5Y 4/8	4	C	M	sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)	_____
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	_____

Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>NA</u> Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): <u>3</u> Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (Inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 139
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): floodplain Local relief (concave, convex, none): none Slope (%): 3
 Subregion (LRR): A2 - Willamette Valley Lat: 44.585839 Long: -124.048835 Datum: NAD83
 Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status																	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Tsuga heterophylla</u>	<u>20</u>	<u>1</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
<u>20</u> = Total Cover																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Gaultheria shallon</u>	<u>60</u>	<u>1</u>	<u>FACU</u>	Prevalence Index worksheet: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1= _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2= _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3= _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4= _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5= _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>0</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1= _____	FACW species _____	x 2= _____	FAC species _____	x 3= _____	FACU species _____	x 4= _____	UPL species _____	x 5= _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = <u>0</u>	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1= _____																			
FACW species _____	x 2= _____																			
FAC species _____	x 3= _____																			
FACU species _____	x 4= _____																			
UPL species _____	x 5= _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = <u>0</u>																				
2. <u>Cytisus scoparius</u>	<u>10</u>		<u>NL</u>																	
3. _____																				
4. _____																				
5. _____																				
<u>70</u> = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)																				
1. _____				Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation ___ 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
_____ = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)																				
1. <u>Rubus armeniacus</u>	<u>20</u>	<u>1</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																
2. _____																				
<u>20</u> = Total Cover																				
% Bare Ground in Herb Stratum <u>10</u>																				
Remarks: _____																				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 5/6	100					sand	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Remarks: _____

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 2/1	100					silt loam	
8-14	10YR 6/3	90	10YR 5/6	10	C	M	silt loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

<p>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</p> <p><input type="checkbox"/> Histosol (A1)</p> <p><input type="checkbox"/> Histic Epipedon (A2)</p> <p><input type="checkbox"/> Black Histic (A3)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11)</p> <p><input type="checkbox"/> Thick Dark Surface (A12)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4)</p> <p><input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
<p>Remarks: _____</p>	

HYDROLOGY

Wetland Hydrology Indicators:

<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input type="checkbox"/> Saturation (A3)</p> <p><input type="checkbox"/> Water Marks (B1)</p> <p><input type="checkbox"/> Sediment Deposits (B2)</p> <p><input type="checkbox"/> Drift Deposits (B3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4)</p> <p><input type="checkbox"/> Iron Deposits (B5)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery(B7)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p>	<p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u></p> <p>Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u></p> <p>Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 142
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): concave Slope (%): 1
 Subregion (LRR): A2 - Willamette Valley Lat: 44.588959 Long: -124.050921 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Alnus rubra</u>	<u>30</u>	<u>1</u>	<u>FAC</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.00</u> (A/B)
5. _____	_____	_____	_____	
<u>30</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rubus spectabilis</u>	<u>10</u>	<u>1</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>10</u> = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Lysichiton americanus</u>	<u>5</u>	<u>1</u>	<u>OBL</u>	
2. <u>Carex obnupta</u>	<u>5</u>	<u>1</u>	<u>OBL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>10</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Hydrophytic Vegetation Indicators: ___ 1- Rapid Test For Hydrophytic Vegetation <u>X</u> 2- Dominance Test is >50% ___ 3- Prevalence Index is ≤3.0 ¹ ___ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ 5- Wetland Non-Vascular Plants ¹ ___ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>				
Remarks: _____				

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Newport Municipal Airport City/County: City of Newport Sampling Date: 24-Sep-2019
 Applicant/Owner: City of Newport State: OR Sampling Point: 143
 Investigator(s): Luke Johnson and Amanda Brophy Section, Township, Range: Section 29, Township 11 S, Range 11 S
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): none Slope (%): 4
 Subregion (LRR): A2 - Willamette Valley Lat: 44.588924 Long: -124.050893 Datum: NAD83
 Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slopes NWI classification: none
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation Soil or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks: <u>Recorded precipitation in previous months was below normal range</u>			

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status	
<u>Tree Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Tsuga heterophylla</u>	60	1	FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>20.00</u> (A/B)
2. <u>Frangula purshiana</u>	10		FAC	
3. _____				
4. _____				
70 = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>30' R</u>)				
1. <u>Gaultheria shallon</u>	10	1	FACU	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1= _____ FACW species _____ x 2= _____ FAC species _____ x 3= _____ FACU species _____ x 4= _____ UPL species _____ x 5= _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = <u>0</u>
2. <u>Tsuga heterophylla</u>	30	1	FACU	
3. _____				
4. _____				
40 = Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5' R</u>)				
1. <u>Polystichum munitum</u>	20	1	FACU	Hydrophytic Vegetation Indicators: ____ 1- Rapid Test For Hydrophytic Vegetation ____ 2- Dominance Test is >50% ____ 3- Prevalence Index is ≤3.0 ¹ ____ 4- Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ____ 5- Wetland Non-Vascular Plants ¹ ____ 6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Blechnum spicant</u>	10	1	FAC	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
30 = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: <u>30' R</u>)				
1. _____				Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum _____				
Remarks:				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 4/3	90					silt loam	
0-16	10YR 6/6	10					sandstone	large fragments of bedrock

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matr

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks: _____	

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	
<input type="checkbox"/> Salt Crust (B11)	
<input type="checkbox"/> Aquatic Invertebrates (B13)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>NA</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (Inches): <u>>16</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

Remarks: _____

APPENDIX C

Photos

Photo: 1	Looking: Northeast	Notes: Near north extent of Wetland 11a in patch of slough sedge (<i>Carex obnupta</i>)
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Photo: 2	Looking: East	Notes: Upland path in northwest portion of Study Area 1
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Photo: 3	Looking: West	Notes: Wetland 2 (left) within road ditch
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Photo: 4	Looking: South	Notes: Wetland 2 within deeper depression of road ditch
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Photo: 5	Looking: South	Notes: Wetland 3
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Photo: 6	Looking: North	Notes: The ravine that includes Wetland 3
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Photo: 7	Looking: East	Notes: Recent burn near upland plot Sp10
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Photo: 8	Looking: North	Notes: Secondary forest growth in upland area near water treatment facility
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Photo: 9

Looking: At ground

Notes: Wetland 4



Photo: 10

Looking: At ground

Notes: Wetland 5



Photo: 11	Looking: West	Notes: Wetland 6 approximated by the blue lines
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Photo: 12	Looking: North	Notes: Wetland 7 approximated by the blue lines
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Photo: 13	Looking: At ground	Notes: Wetland 8 on left side of approximate wetland boundary indicated by blue line
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Photo: 14	Looking: West	Notes: Representative upland in southeast portion of Study Area 2
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Photo: 15	Looking: Southeast	Notes: Southwest corner of Study Area 2
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Photo: 16	Looking: Southwest	Notes: Old logging road in Study Area 2
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Photo: 17

Looking: At ground

Notes: Wetland 9



Photo: 18

Looking: West

Notes: Wetland 9



Photo: 19	Looking: Northwest	Notes: Wetland 10
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Photo: 20	Looking: Northeast	Notes: Upland slope in northeast corner of Study Area 1 near Sp34
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Photo: 21

Looking: East

Notes: Northeast corner of Study Area 2 near Sp18



Photo: 22

Looking: East

Notes: Southeast portion of Study Area 4



Photo: 23

Looking: Northeast

Notes: Southwest portion of Study Area 4



Photo: 24

Looking: North

Notes: Northwest portion of Study Area 4



Photo: 25

Looking: Northeast

Notes: Southern extent of Wetland 11a



Photo: 26

Looking: Southeast

Notes: Near northern extent of Wetland 11e



Photo: 27	Looking: Southeast	Notes: Near northern edge of Wetland 11b
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Photo: 28	Looking: East	Notes: Near lateral midpoint of Wetland 12, forest-access road (left)
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Photo: 29

Looking: Northeast

Notes: Near southwestern edge of Wetland 13



Photo: 30

Looking: North

Notes: Within swale Wetland 14, looking downslope



Photo: 31

Looking: East

Notes: Upland and dry conditions at top of topographic drainage feature



Photo: 32

Looking: Northwest

Notes: OHWL of Stream 8, looking upstream



Photo: 33

Looking: Northwest

Notes: Near Edge of Wetland 15, sand/gravel filter medium (bottom)



Photo: 34

Looking: East

Notes: Wetland 15



Photo: 35	Looking: Southeast	Notes: Upland alder forest within topographic drainage feature
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Photo: 36	Looking: Southwest	Notes: Standing on upland plateau, looking into Wetland 18
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Photo: 37

Looking: Northeast

Notes: Standing on right valley wall of Stream 4, looking downstream



Photo: 38

Looking: North

Notes: Wetland 20



Photo: 39	Looking: Northwest	Notes: Wetland 19
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Photo: 40	Looking: Northeast	Notes: West edge of upland pasture
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Photo: 41

Looking: Northeast

**Notes: Southern edge of wetland complex,
Wetland 21b**



Photo: 42

Looking: Southeast

**Notes: OHWL of Henderson Creek within
Study Area 3**



Photo: 43

Looking: Northwest

Notes: Wetland 23



Photo: 44

Looking: South

Notes: Stream 3 OHWL



Photo: 45

Looking: North

**Notes: Southern extent of Wetland 24,
headwaters of Stream 2**



Photo: 46

Looking: West

**Notes: OHWL of Stream 2 downstream of
Stream 3 confluence**



Photo: 47	Looking: At ground	Notes: Surface water and saturated soils in Wetland 25a
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Photo: 48	Looking: Southwest	Notes: Wetland 25b
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Photo: 49

Looking: Northeast

Notes: mid-point of Wetland 26



Photo: 50

Looking: East

Notes: Standing on farm-access road at western extent of Stream 1 impoundment



Photo: 51	Looking: East	Notes: Second impoundment of Stream 1 in Study Area 3
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Photo: 52	Looking: North	Notes: Forest access road that crosses Stream 1 and separates Wetlands 25a and 25b.
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Photo: 53

Looking: Southwest

Notes: View of Wetland 16 from adjacent sand stockpile



Photo: 54

Looking: Northeast

Notes: Sand stockpile area adjacent to Wetland 16



Photo: 55	Looking: Southwest	Notes: Distant view of upland swale that includes Sp116 (arrow)
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Photo: 56	Looking: At ground	Notes: Small cobbles and surface water within OHWL of Stream 7
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Photo: 57

Looking: Southeast

Notes: OHWL of Moore Creek within Wetland 27



Photo: 58

Looking: East

Notes: Wetland 29 slough sedge and alder thicket



Photo: 59	Looking: East	Notes: Near western edge of Wetland 28
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Photo: 60	Looking: Northeast	Notes: OHWL of Stream 5 looking upstream, within Wetland 30a
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Photo: 61

Looking: Northwest

Notes: Wetland 30e looking upslope



Photo: 62

Looking: Northwest

Notes: OHWL of Stream 6



APPENDIX D

Literature Cited

Appendix D: Literature Cited

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