APPENDIX C

Wetland Delineation

DRAFT ENVIRONMENTAL ASSESSMENT

Newport Municipal Airport Obstruction Removal



March 16, 2021

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

or

Shemia Fagan

Kate Brown

Governor

Shemia Fagan Secretary of State

> Tobias Read State Treasurer

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

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)

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,

Th

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



March 8, 2021

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

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

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

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.

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 the date of this letter 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.

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,

Bt. Ryan

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: <u>https://apps.oregon.gov/DSL/EPS/program?key=4</u>.

of the report cover form and report, minimum 300 dpi resolution Street NE, Suite 100, Salem, OR 97301-1279. A single PDF	nd report or include a hard copy with a digital version (single PDF file n) and submit to: Oregon Department of State Lands, 775 Summer of the completed cover from and report may be e-mailed to: files larger than 10 MB, e-mail DSL instructions on how to access the		
Contact and Authorization Information			
Applicant 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		
Authorized Legal Agent, Name and Address (if different)	: Business phone # Mobile phone # (optional) E-mail:		
property for the purpose of confirming the information in the repo			
Typed/Printed Name: Lawce. Vanderlassk Date: 12-23-2019 Special instructions regarding s	Signature:		
	ite access:		
Project and Site Information	10100000		
Project Name: Newport Municipal Airport Obstruction Removal	Latitude: 44.579275° Longitude: -124.059759° decimal degree - centroid of site or start & end points of linear project		
Proposed Use: Removal of obstructions (trees) from FAA regulated cone of	Tax Map #See attached table. Tax maps and lots organized by study area		
approach to Airport runways.	Tax Lot(s)		
	Tax Map #		
Project Street Address (or other descriptive location):	Tax Lot(s)		
135 SE 84th Street	Township 11 S Range 11 S Section 29 QQ		
City: Newport/South Beach County: Lincoln	Use separate sheet for additional tax and location information		
Wetland Delineation Information	Waterway: Henderson Creek River Mile: NA		
Wetland Consultant Name, Firm and Address:	Phone # (971) 295-5041		
Luke Johnson, Wetland Biologist Environmental Science Associates 819 SE Morrison Street, Suite 310 Portland, OR 97214	Mobile phone # (if applicable) E-mail: Ijohnson@esassoc.com		
The information and conclusion in this form and in the attached Consultant Signature:	report are true and correct to the best of my knowledge. Date: 10/24/2019		
Primary Contact for report review and site access is 🗵 (
Wetland/Waters Present? Xes No Study Ar	ea size: 521.25 acres Total Wetland Acreage: 7.2800		
Check Applicable Boxes Below			
R-F permit application submitted	X Fee payment submitted \$ 454⁻ \$466		
Mitigation bank site	Resubmittal of rejected report (\$100)		
EFSC/ODOE Proj. Mgr:	Request for Reissuance. See eligibility criteria. (no fee)		
Wetland restoration/enhancement project (not mitigation)	DSL # Expiration date		
Previous delineation/application on parcel If known, previous DSL #	LWI shows wetlands or waters on parcel Wetland ID code		
For O	ffice Use Only		
DSL Reviewer: Fee Paid Date:	// DSL WD # <u>2020-0008</u>		
Date Delineation Received: <u>1 / 2 / 20</u> Scanne	ed: Electronic: DSL App.#		

Study Area	Tax Map	OR Tax lot #	Right of Entry
1	11-11-29-00-01402-00	2111.00S11.00W2900 000001402	Yes
1	11-11-29-00-01401-00	2111.00S11.00W2900 000001401	Yes
	11-11-29-00-01402-00	2111.00S11.00W2900 000001402	Yes
	11-11-29-00-01401-00	2111.00S11.00W2900 000001401	Yes
2	11-11-29-00-00400-00	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
		2111.00S11.00W2000	
	11-11-20-00-02700-00	000002700 2111.00S11.00W2100	Yes
	11-11-21-00-01600-00	000001600 2111.00\$11.00\$2800	Yes
	11-11-28-00-00700-00	000000700 2111.00\$11.00W2900	Yes
3	11-11-29-00-00100-00	000000100 2111.00\$11.00W2900	Yes
	11-11-29-00-00500-00	000000500 2111.00\$11.00W2900	Yes
	11-11-29-00-00600-00	00000600	Yes
	11-11-29-00-01000-00	2111.00S11.00W2900 000001000	Yes
	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
4	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
	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
		0111 00011 00W2000	
	11-11-32-CC-01101-00	2111.00S11.00W32CC 000001101	Yes
		2112.00\$11.00W0500	
	12-11-05-00-00800-00	000000800 2112.00\$11.00W0500	Yes
	12-11-05-00-0ROAD-00	00000ROAD 2112.00S11.00W0500	Yes
4	12-11-05-00-00803-00	000000803 2112.00\$11.00W0500	Yes
	12-11-05-00-00801-00	000000801 2112.00\$11.00W0600	Yes
	12-11-06-00-00600-00	000000600 2112.00\$11.00W0600	Yes
	12-11-06-00-0ROAD-00	00000ROAD	Yes
		2112.00\$11.00W0600	
	12-11-06-00-00300-00	D00100300 2112.00\$11.00W0600	Yes
	12-11-06-00-00200-00	D00100200 2112.00\$11.00W0600	Yes
	12-11-06-00-00100-00	D00100100 2111.00S11.00W3200	Yes
	11-11-32-00-01604-00	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	2112.00\$11.00W0600 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
	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
9	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
	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
10	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

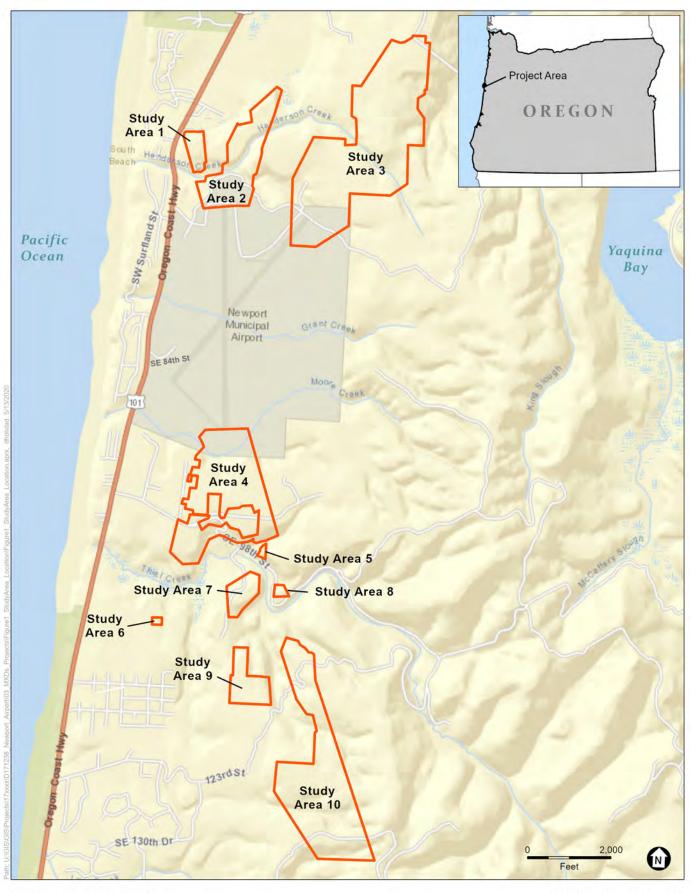
Study Area	Name	Acres	OHW Width (ft)	ESH	Jurisdictional
2	Wetland 2	0.02	N/A	No	Yes
10	Wetland 3	0.07	N/A	No	Yes
3	Wetland 4	0.03	N/A	No	Yes
3	Wetland 5	0.06	N/A	No	Yes
3	Wetland 6	0.04	N/A	No	Yes
3	Wetland 7	0.08	N/A	No	Yes
3	Wetland 8	0.14	N/A	No	Yes
2	Wetland 9	0.04	N/A	No	Yes
2	Wetland 10	0.2	N/A	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



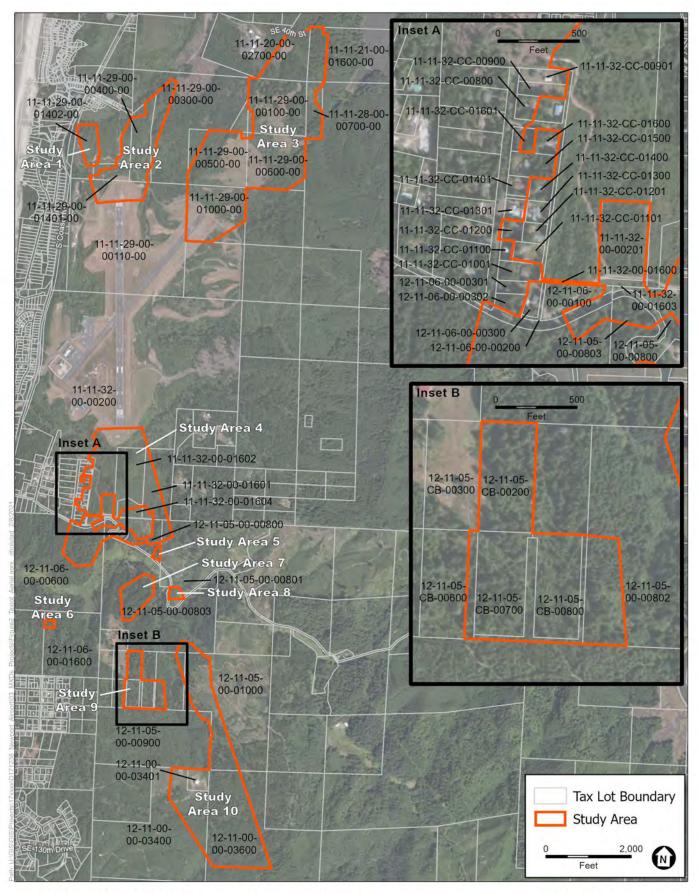
SOURCE: ESA, 2019; ESRI, 2017

ESA

4

D171238.00 Newport Airport EA

Figure 1 Study Area Location Map Lincoln County, OR

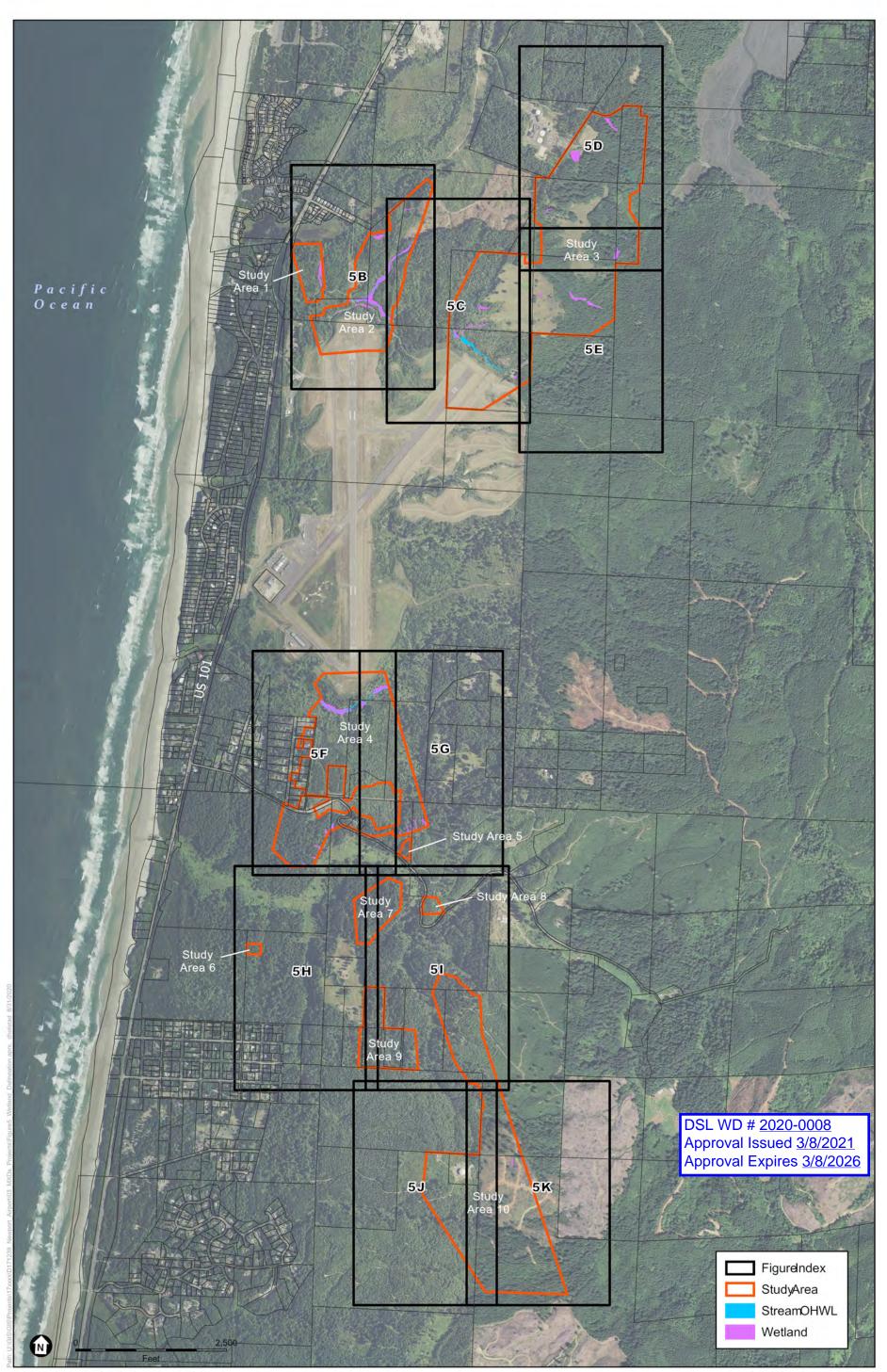


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; Lincoln County, 2017

ESA

D171238.00 Newport Airport EA

Figure 2 Tax Lot and Aerial Map Lincoln County, OR

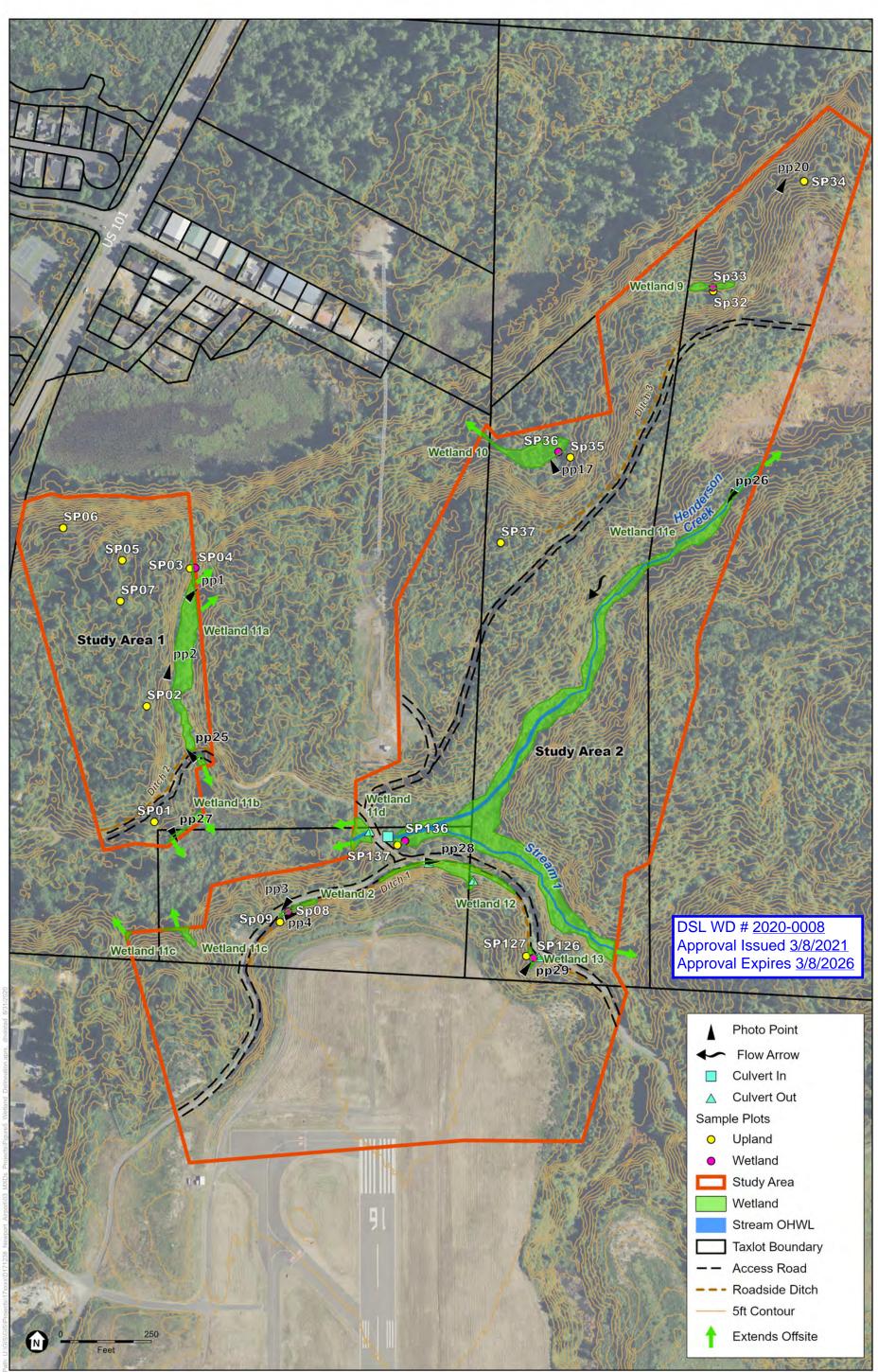


; ESA, 2019; StreamNet, 2019; City of Newport, 2019.

D171238.00 Newport Airport EA

Figure 5A Wetland Delineation Map Lincoln County, OR

ESA



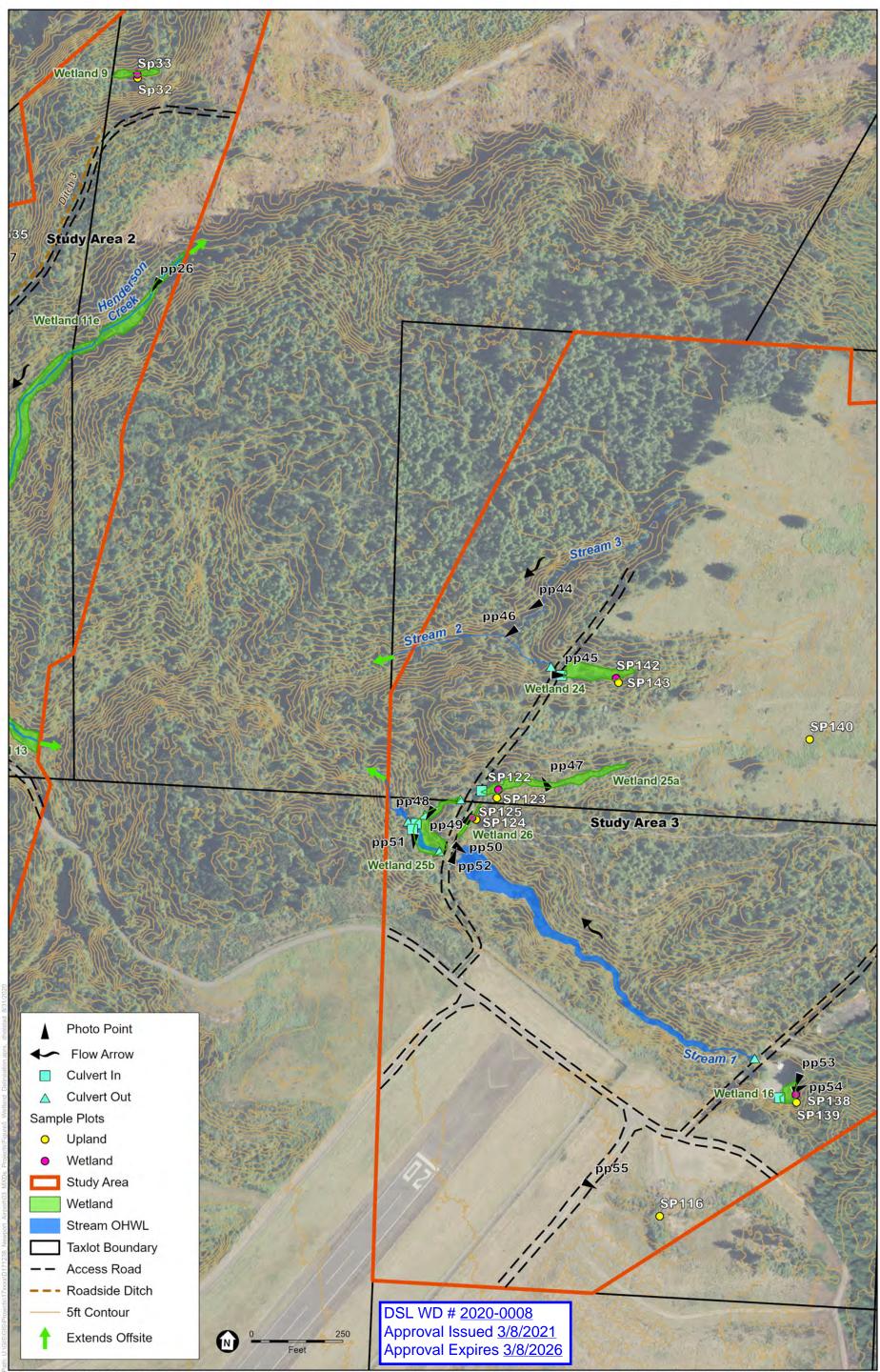
DSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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

ESA



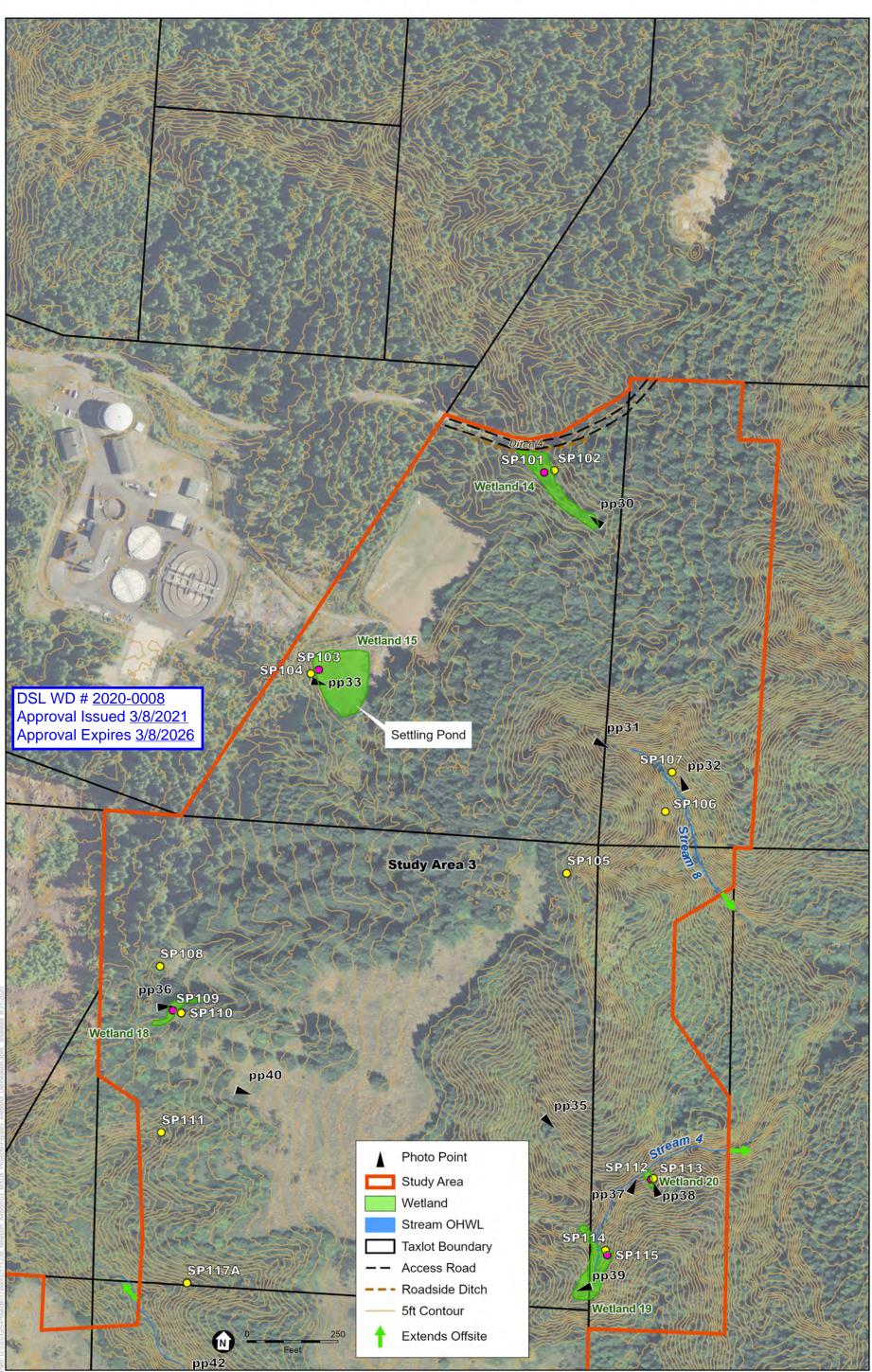
OSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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

ESA 1



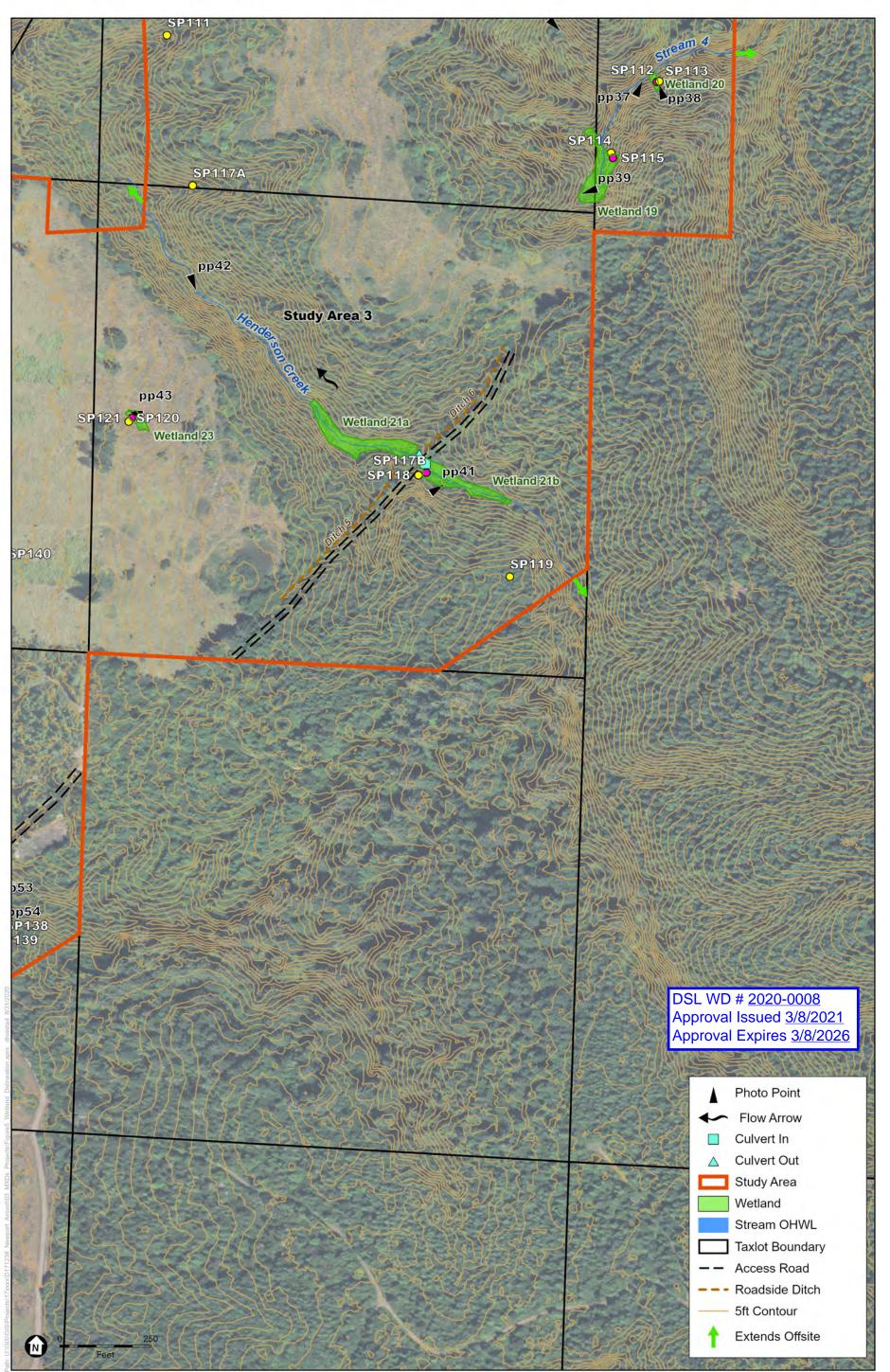
OSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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

ESA 1



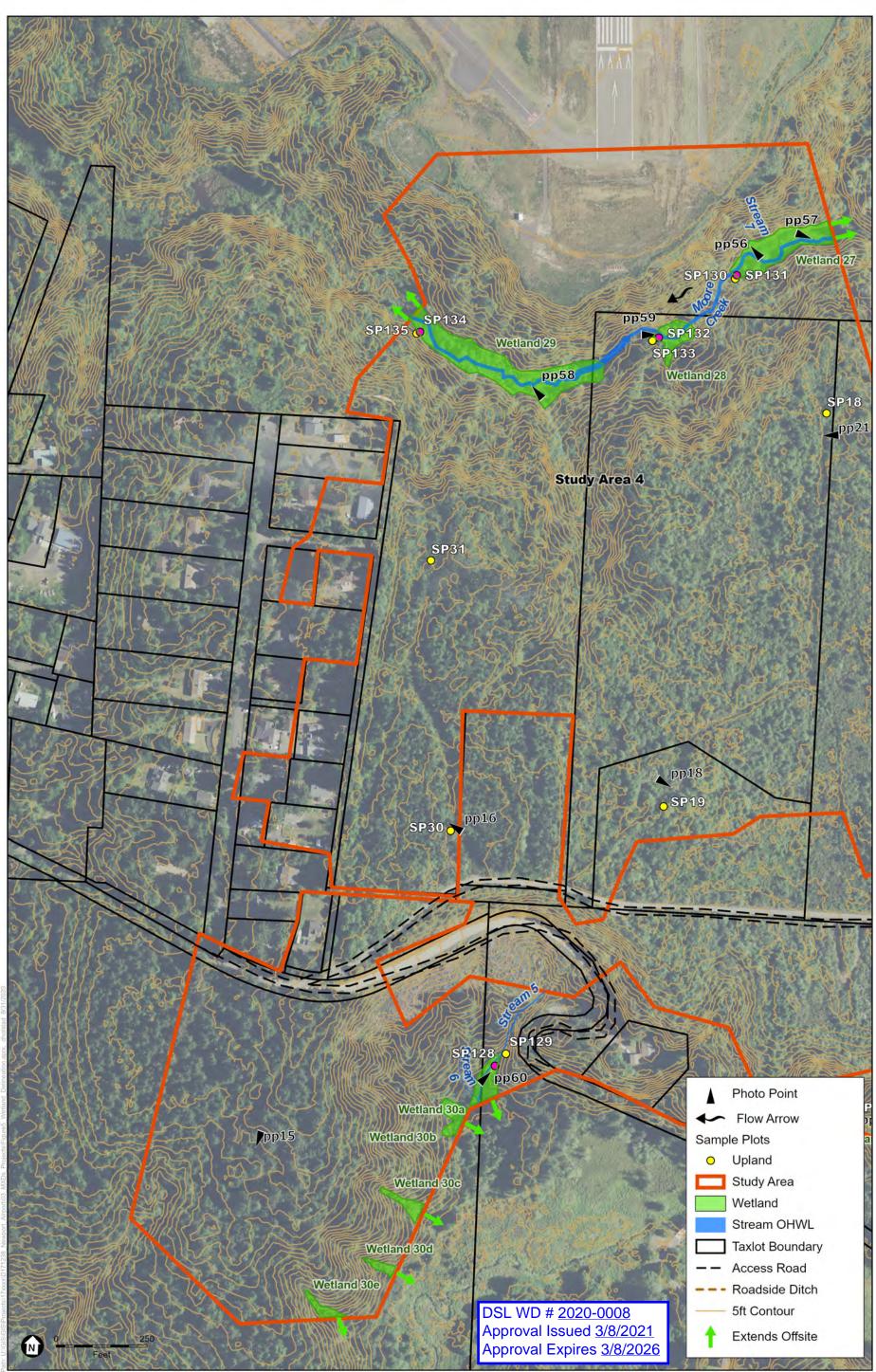
OSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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

ESA



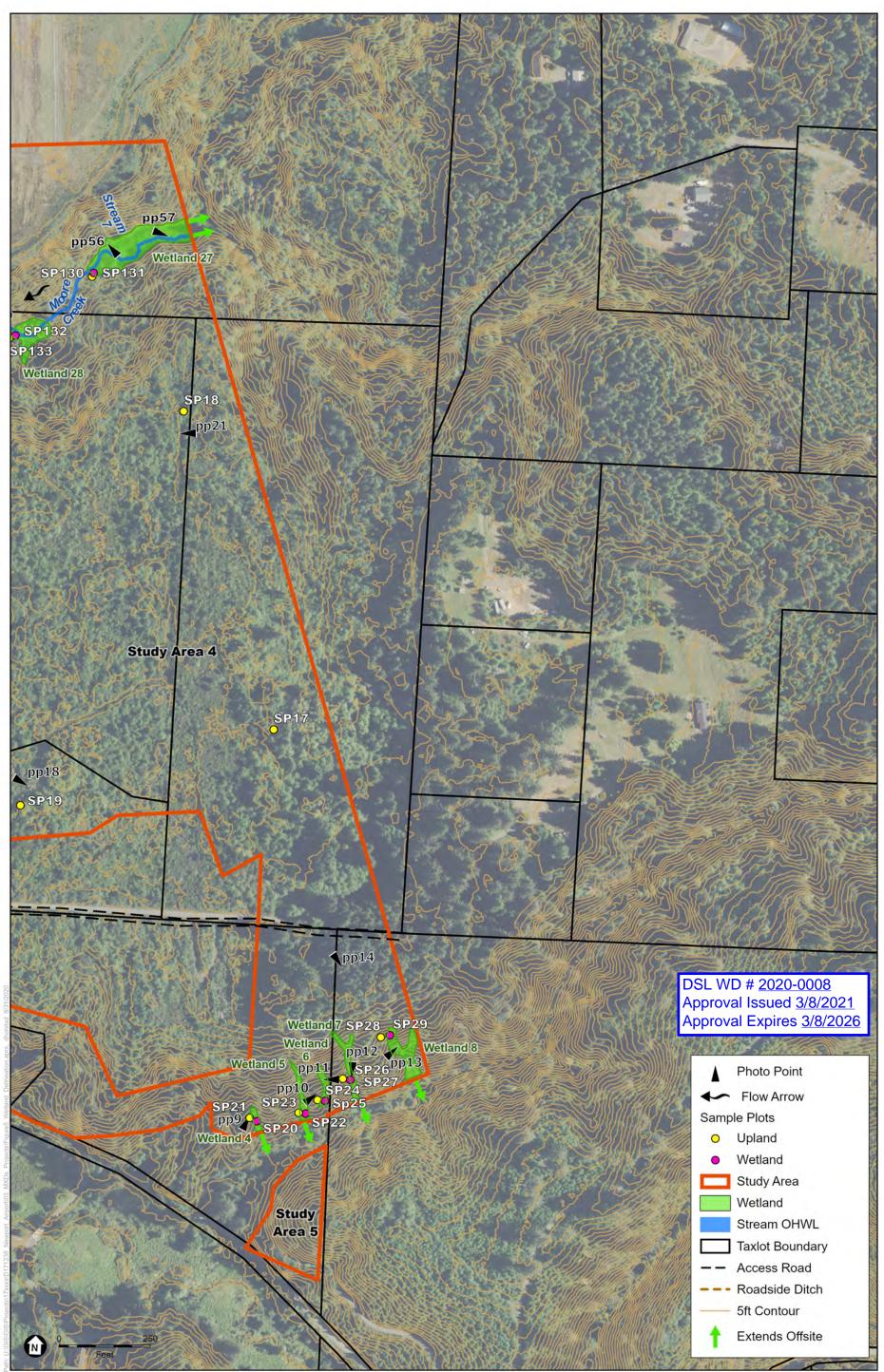
DSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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

ESA



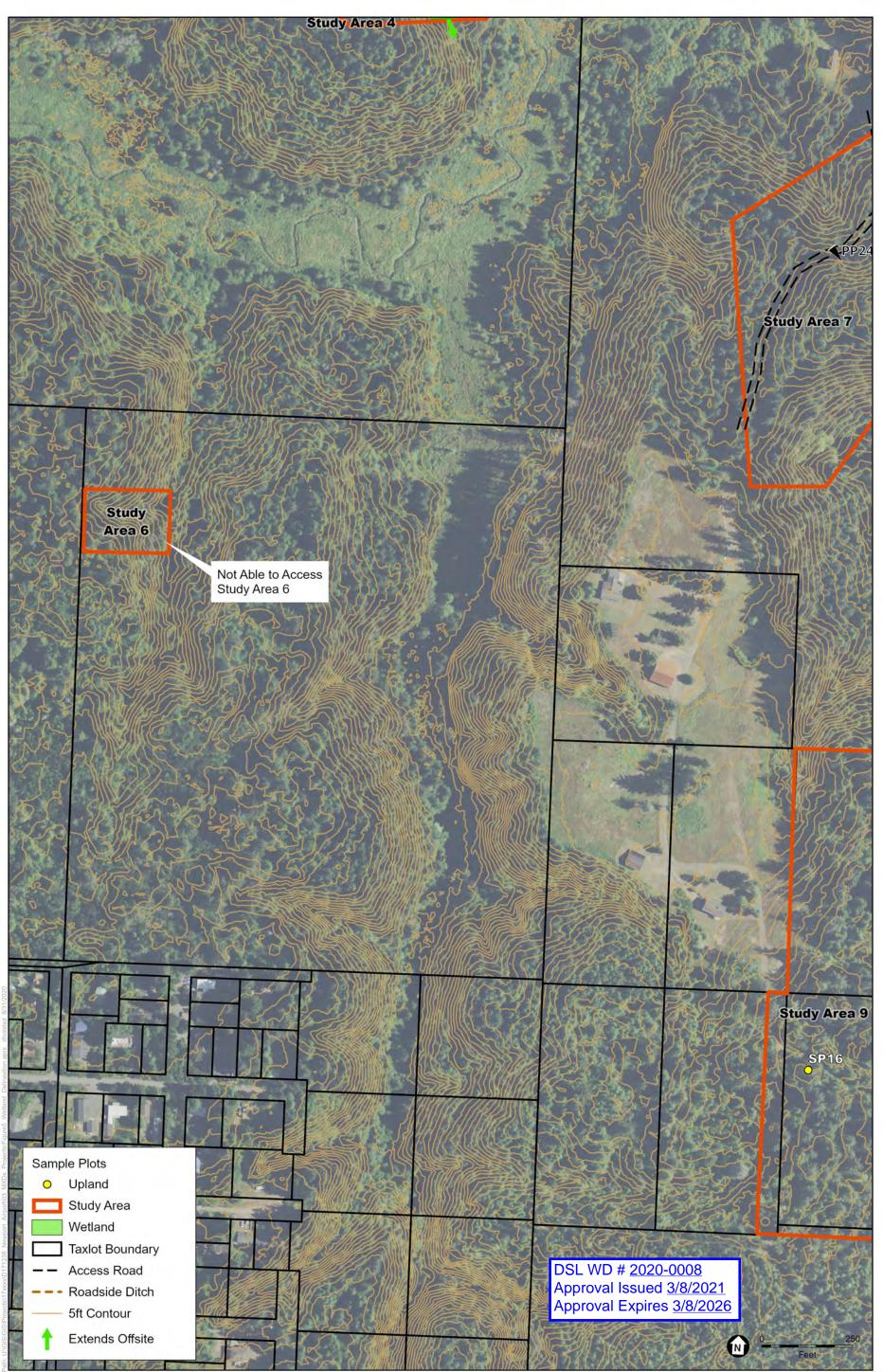
OSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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 5G Wetland Delineation Overview Map Lincoln County, OR

ESA



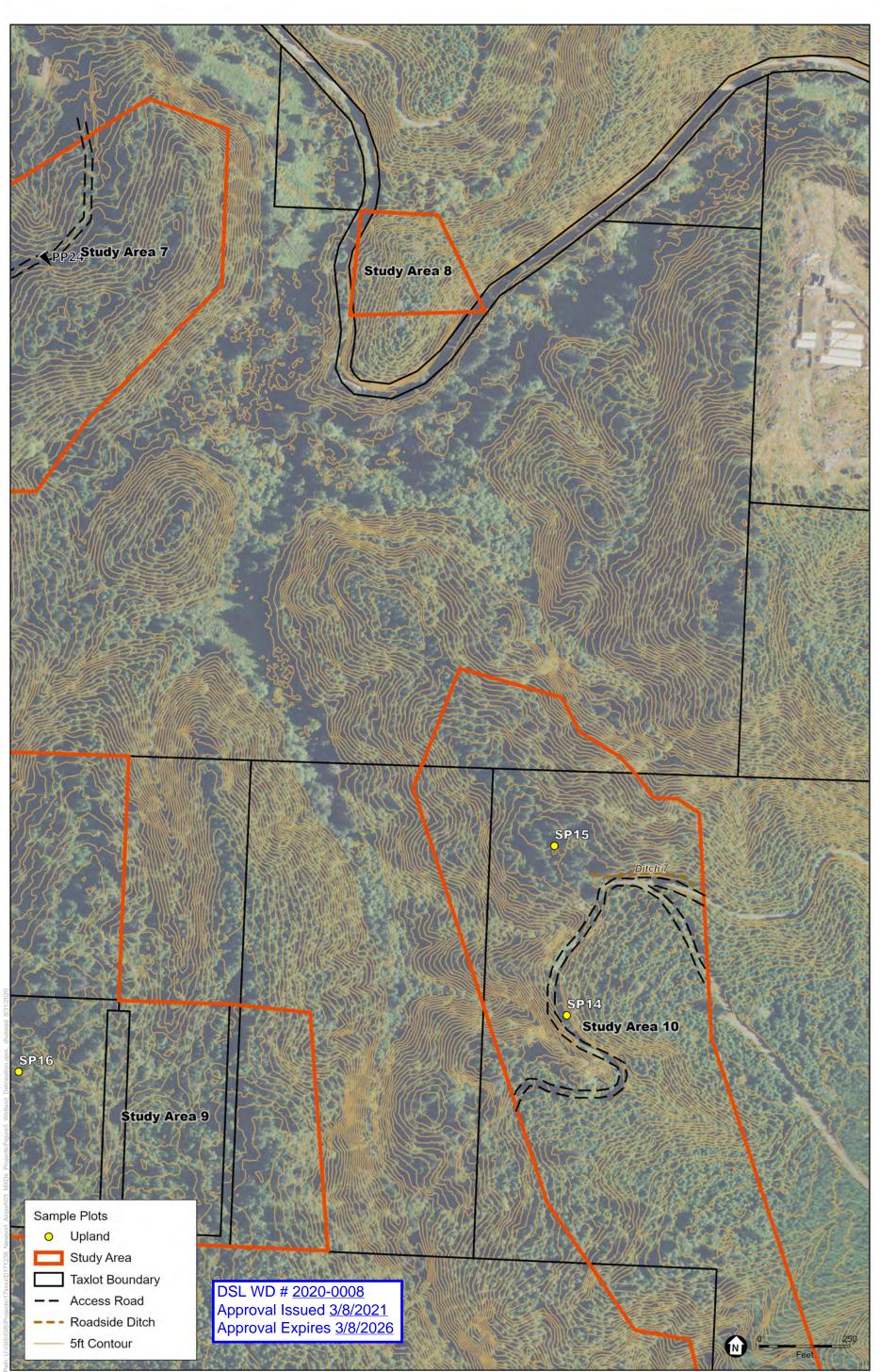
OSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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 5H Wetland Delineation Overview Map Lincoln County, OR

ESA 1



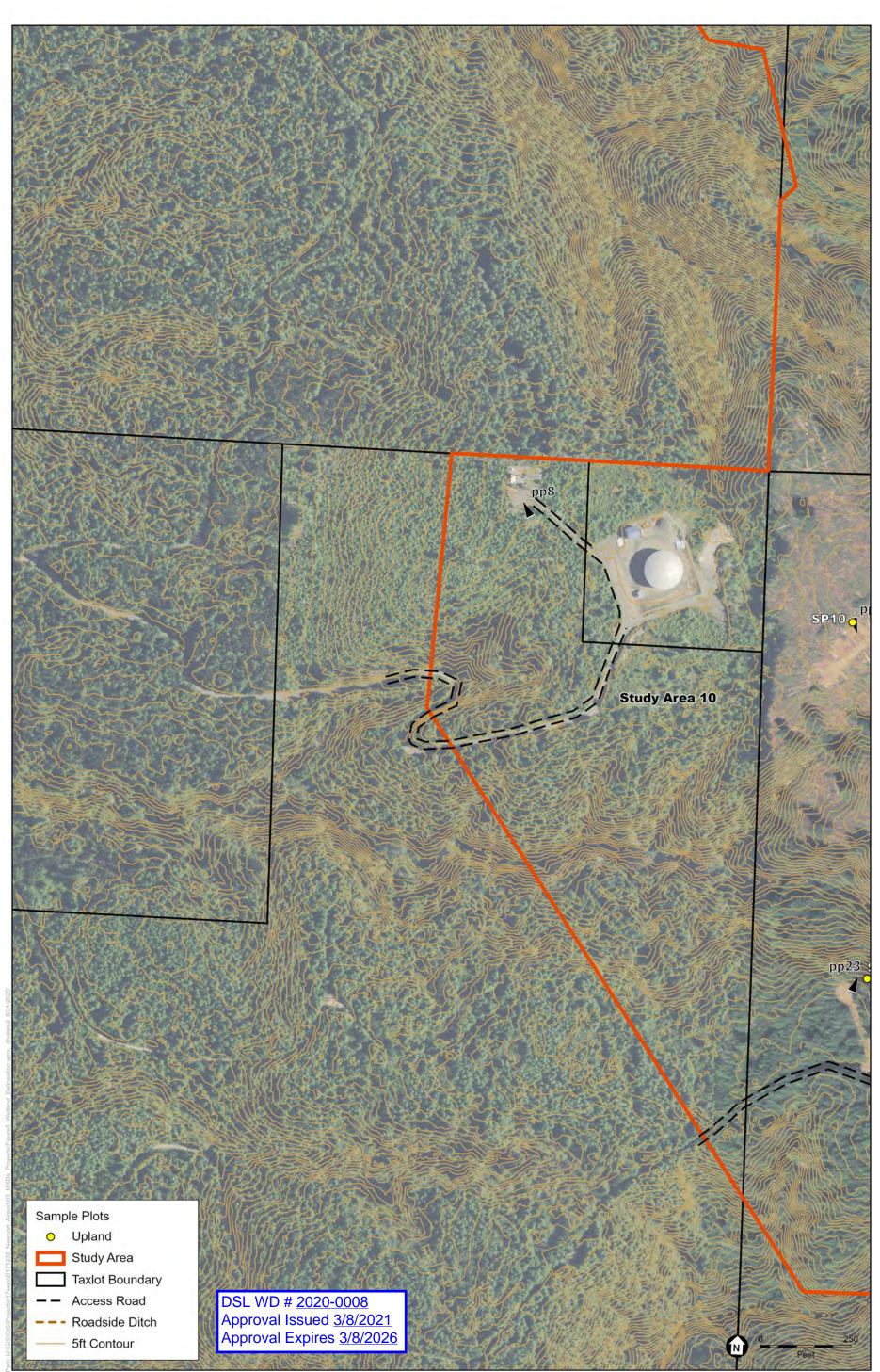
OSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

ESA

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 5I Wetland Delineation Overview Map Lincoln County, OR



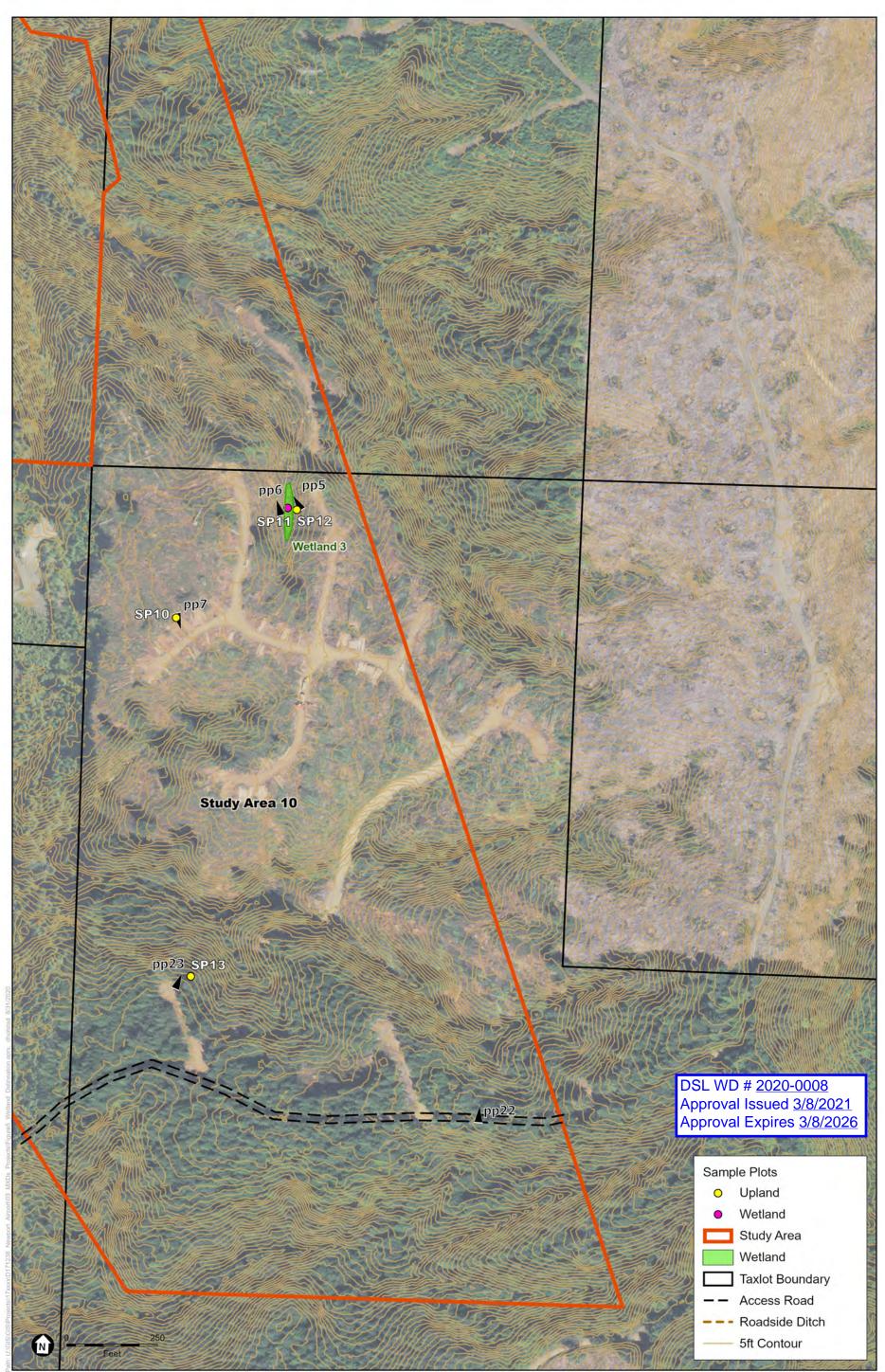
OSIP_2018\OSIP_2018_WM: ; ESA, 2019; DOGAMI, 2012.

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 5J Wetland Delineation Overview Map Lincoln County, OR

ESA 1



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 5K Wetland Delineation Overview Map Lincoln County, OR

ESA

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: <u>https://apps.oregon.gov/DSL/EPS/program?key=4</u>.

of the report cover form and report, minimum 300 dpi resolution Street NE, Suite 100, Salem, OR 97301-1279. A single PDF	nd report or include a hard copy with a digital version (single PDF file n) and submit to: Oregon Department of State Lands, 775 Summer of the completed cover from and report may be e-mailed to: files larger than 10 MB, e-mail DSL instructions on how to access the		
Contact and Authorization Information			
Applicant 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		
Authorized Legal Agent, Name and Address (if different)): Business phone # Mobile phone # (optional) E-mail:		
property for the purpose of confirming the information in the repo			
Typed/Printed Name: Lawce. Vanderlassk Date: 12-23-2019 Special instructions regarding s	Signature:		
	ife access:		
Project and Site Information	1-11-1 A 570759		
Project Name: Newport Municipal Airport Obstruction Removal	Latitude: 44.579275° Longitude: -124.059759° decimal degree - centroid of site or start & end points of linear project		
Proposed Use: Removal of obstructions (trees) from FAA regulated cone of	Tax Map #See attached table.Tax maps and lots organized by study area		
approach to Airport runways.	Tax Lot(s)		
Desired Observe Address (see allowed and the second second	Tax Map #		
Project Street Address (or other descriptive location):	Tax Lot(s)		
135 SE 84th Street	Township 11 S Range 11 S Section 29 QQ		
City: Newport/South Beach County: Lincoln	Use separate sheet for additional tax and location information Waterway: Henderson Creek River Mile: NA		
Wetland Delineation Information	Waterway. Henderson creek River Wille. NA		
Wetland Consultant Name, Firm and Address:	Phone #(971) 295-5041		
Luke Johnson, Wetland Biologist Environmental Science Associates 819 SE Morrison Street, Suite 310 Portland, OR 97214	Mobile phone # (if applicable) E-mail: Ijohnson@esassoc.com		
The information and conclusion in this form and in the attached Consultant Signature:	Date: 10/24/2019		
Primary Contact for report review and site access is 🛛			
Wetland/Waters Present? Xes No Study Ar	ea size: 521.25 acres Total Wetland Acreage: 7.2800		
Check Applicable Boxes Below			
R-F permit application submitted	Eee payment submitted \$ 454- \$466		
Mitigation bank site	Resubmittal of rejected report (\$100)		
EFSC/ODOE Proj. Mgr: Wetland restoration/enhancement project	Request for Reissuance. See eligibility criteria. (no fee) DSL # Expiration date		
 (not mitigation) Previous delineation/application on parcel If known, previous DSL # 	LWI shows wetlands or waters on parcel Wetland ID code		
For O	ffice Use Only		
DSL Reviewer: Fee Paid Date:	// DSL WD #		
Date Delineation Received:// Scanne			

Study Area	Тах Мар	OR Tax lot #	Right of Entry
		2111.00S11.00W2900	
1	11-11-29-00-01402-00	000001402	Yes
1		2111.00S11.00W2900	
	11-11-29-00-01401-00	000001401	Yes
		2111.00S11.00W2900	
	11-11-29-00-01402-00	000001402	Yes
-		2111.00S11.00W2900	
2	11-11-29-00-01401-00	000001401	Yes
		2111.00S11.00W2900	
	11-11-29-00-00400-00	000000400	Yes
		2111.00S11.00W2000	
	11-11-20-00-02700-00	000002700	Yes
	11-11-20-00-02700-00	2111.00S11.00W2100	105
	11-11-21-00-01600-00	000001600	Yes
	11-11-21-00-01000-00	2111.00S11.00W2800	105
	11-11-28-00-00700-00	000000700	Yes
	11-11-28-00-00700-00	2111.00S11.00W2900	105
3	11-11-29-00-00100-00	000000100	Yes
	11-11-29-00-00100-00	2111.00S11.00W2900	105
	11-11-29-00-00500-00	000000500	Yes
	11-11-29-00-00300-00	2111.00S11.00W2900	105
	11-11-29-00-00600-00	000000600	Yes
	11-11-29-00-00000-00	2111.00S11.00W2900	105
	11-11-29-00-01000-00	000001000	Yes
	11-11-29-00-01000-00	00001000	105
		2111.00S11.00W3200	
	11-11-32-00-00200-00	00000200	Yes
		2111.00S11.00W3200	
	11-11-32-00-01602-00	000001602	Yes
		2111.00S11.00W3200	
	11-11-32-00-01601-00	000001601	Yes
		2111.00S11.00W3200	
	11-11-32-00-00201-00	00000201	No
		2111.00S11.00W3200	
4	11-11-32-00-01600-00	000001600	No
4		2111.00S11.00W32CC	
	11-11-32-CC-0ROAD-00	00000ROAD	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-00901-00	00000901	No
		2111.00S11.00W32CC	
	11-11-32-CC-00900-00	00000900	No
		2111.00S11.00W32CC	
	11-11-32-CC-00800-00	00000800	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01601-00	000001601	Yes

Study			
Area	Тах Мар	OR Tax lot #	Right of Entry
		2111.00S11.00W32CC	
	11-11-32-CC-01600-00	000001600	No
		2111.00S11.00W32CC	
	11-11-32-CC-01401-00	000001401	No
		2111.00S11.00W32CC	
	11-11-32-CC-01400-00	000001400	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01301-00	000001301	No
		2111.00S11.00W32CC	
	11-11-32-CC-01300-00	000001300	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01201-00	000001201	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01100-00	000001100	No
		2111.00S11.00W32CC	
	11-11-32-CC-01101-00	000001101	Yes
		2111.00S11.00W32CC	
	11-11-32-CC-01001-00	000001001	No
		2112.00S11.00W0500	
	12-11-05-00-00800-00	000000800	Yes
		2112.00S11.00W0500	
	12-11-05-00-0ROAD-00	00000ROAD	Yes
		2112.00S11.00W0500	
	12-11-05-00-00803-00	000000803	Yes
		2112.00S11.00W0500	
	12-11-05-00-00801-00	000000801	Yes
		2112.00S11.00W0600	
	12-11-06-00-00600-00	00000600	Yes
		2112.00S11.00W0600	
	12-11-06-00-0ROAD-00	00000ROAD	Yes
		2112.00S11.00W0600	
	12-11-06-00-00301-00	D00100301	No
		2112.00S11.00W0600	
	12-11-06-00-00300-00	D00100300	Yes
		2112.00S11.00W0600	
	12-11-06-00-00200-00	D00100200	Yes
		2112.00S11.00W0600	
	12-11-06-00-00100-00	D00100100	Yes
		2111.00S11.00W3200	
	11-11-32-00-01604-00	000001604	Yes
		2111.00S11.00W3200	
	11-11-32-00-01603-00	000001603	No
		2111.00S11.00W32CC	
	11-11-32-CC-01500-00	000001500	No
		2111.00S11.00W32CC	
	11-11-32-CC-01200-00	000001200	Yes
		2112.00S11.00W0500	
	12-11-05-00-00600-00	00000600	Yes

Study Area	Tax Map	OR Tax lot #	Right of Entry
		2112.00S11.00W0600	
	12-11-06-00-00302-00	D00100302	No
		2112.00S11.00W0500	
5	12-11-05-00-00800-00	000000800	Yes
		2112.00S11.00W0500	
6	12-11-05-00-00800-00	000000800	Yes
		2112.00S11.00W0500	
7	12-11-05-00-00803-00	000000803	Yes
		2112.00S11.00W0500	
8	12-11-05-00-00801-00	00000801	Yes
		2112.00\$11.00W0500	
	12-11-05-00-00802-00	00000802	Yes
	12 11 03 00 00002 00	2112.00S11.00W05CB	105
	12-11-05-CB-00300-00	000000300	Yes
		2112.00S11.00W05CB	105
	12-11-05-CB-00600-00	00000600	Yes
0		2112.00S11.00W05CB	
9	12-11-05-CB-00700-00	000000700	Yes
		2112.00S11.00W05CB	
	12-11-05-CB-00800-00	00000800	Yes
		2112.00S11.00W05CB	
	12-11-05-CB-0ROAD-00	00000ROAD	Yes
		2112.00S11.00W05CB	
	12-11-05-CB-00200-00	000000200	Yes
		2112.00S11.00W0000	
	12-11-00-00-03400-00	000003400	Yes
		2112.00S11.00W0000	
	12-11-00-00-03401-00	000003401	Yes
		2112.00S11.00W0000	
	12-11-00-00-03600-00	000003600	Yes
10		2112.00S11.00W0500	
10	12-11-05-00-00803-00	000000803	Yes
		2112.00S11.00W0500	
	12-11-05-00-00802-00	000000802	Yes
		2112.00S11.00W0500	
	12-11-05-00-01000-00	000001000	Yes
		2112.00S11.00W0500	
	12-11-05-00-00900-00	00000900	Yes

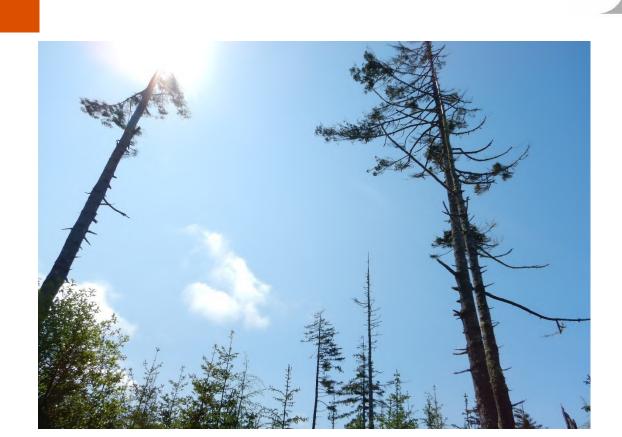
NEWPORT MUNICIPAL AIRPORT OBSTRUCTION REMOVAL WATER RESOURCE DELINEATION REPORT

Prepared for

October 2019

ESA

City of Newport



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Prepared for

October 2019

City of Newport



819 SE Morrison Street Suite 310 Portland, OR 97214 503.274.2010

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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

1

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 clearcut. 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.

		WETS			Within		
Time Interval	Recorded Precipitation	Average	30% Chance Less	30% Chance More	Normal Range?		
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	_	_	_	_		

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

 Survey

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

		WETS		Within	
Time Interval	Recorded Precipitation	Average	30% Chance Less	30% Chance More	Normal Range?
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.

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%

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

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 (Lyschiton 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 than7 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 involucratra*, 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 sparely 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. The1,600-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 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-lineary-foot section of an unnamed tributary to Thiel Creek with a 4foot 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.

Study Area	Name	Acres	HGM Classification	Cowardin Class	Potentially Jurisdictional?
1	Wetland 11a	0.39	Slope	Palustrine emergent	Yes
1	Wetland 11b	0.02	Riverine	Palustrine scrub-shrub	Yes
	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
2	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
	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
2	Wetland 25b	0.17	Riverine	Palustrine forested	Yes
3	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
	Steam 2	0.04		Riverine	Yes
	Stream 3	0.03		Riverine	Yes
	Stream 4	0.05		Riverine	Yes
	Stream 8	0.05		Riverine	Yes

Table 4. Summary of Water Resource Delineation

Study Area	Name	Acres	HGM Classification	Cowardin Class	Potentially Jurisdictional?
	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
4	Wetland 30c	0.07	Depressional	Palustrine forested	Yes
4	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			
Tota	al OHWL	1.701			

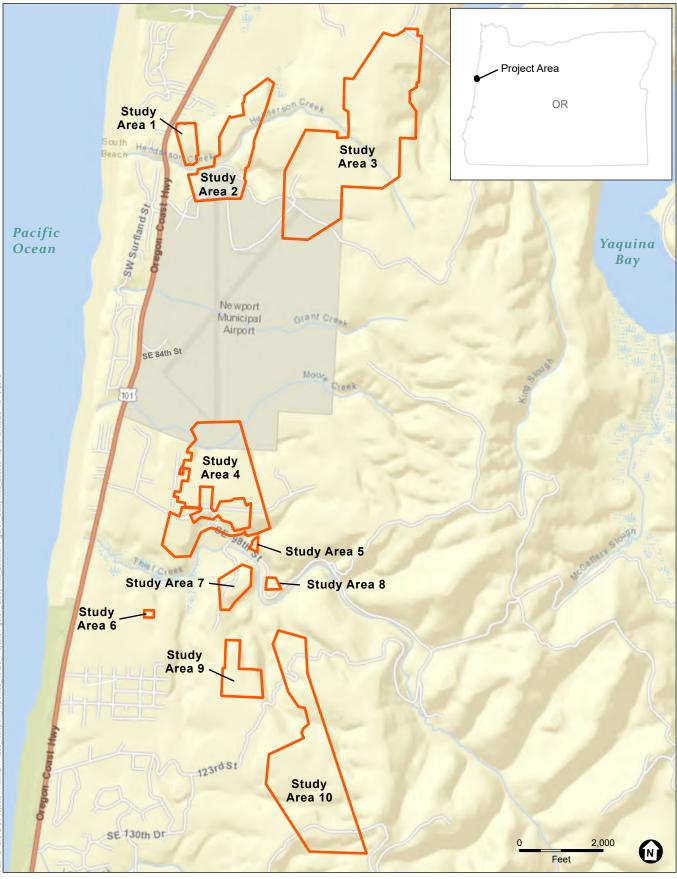
Notes: HGM = hydrogeomorphic; OHWL = ordinary high-water level. Source: Data compiled by Environmental Science Associates in 2019.

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)

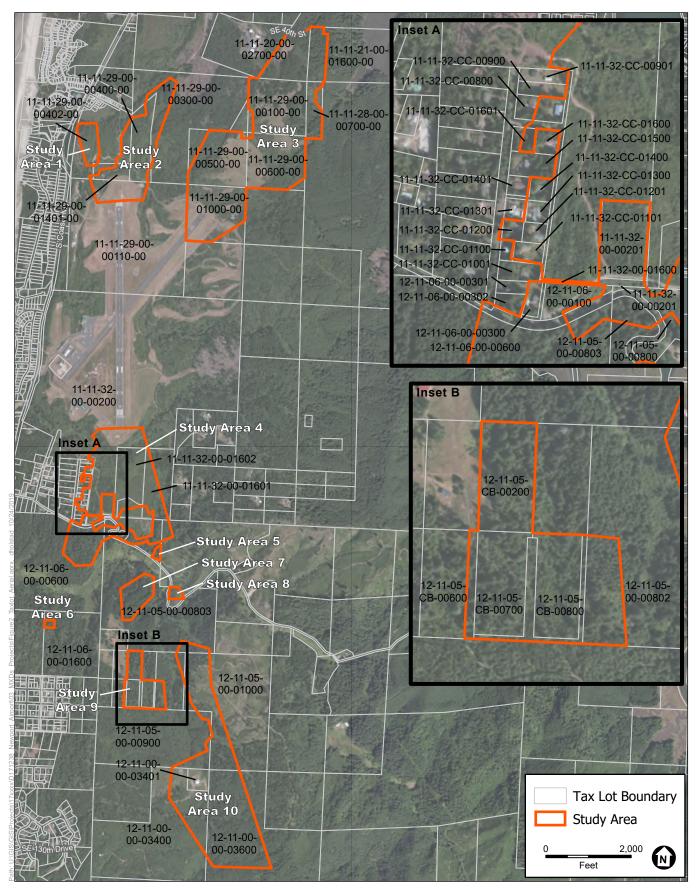


SOURCE: ESA, 2019; ESRI, 2017

D171238.00 Newport Airport EA

Figure 1 Study Area Location Map Lincoln County, OR

ESA

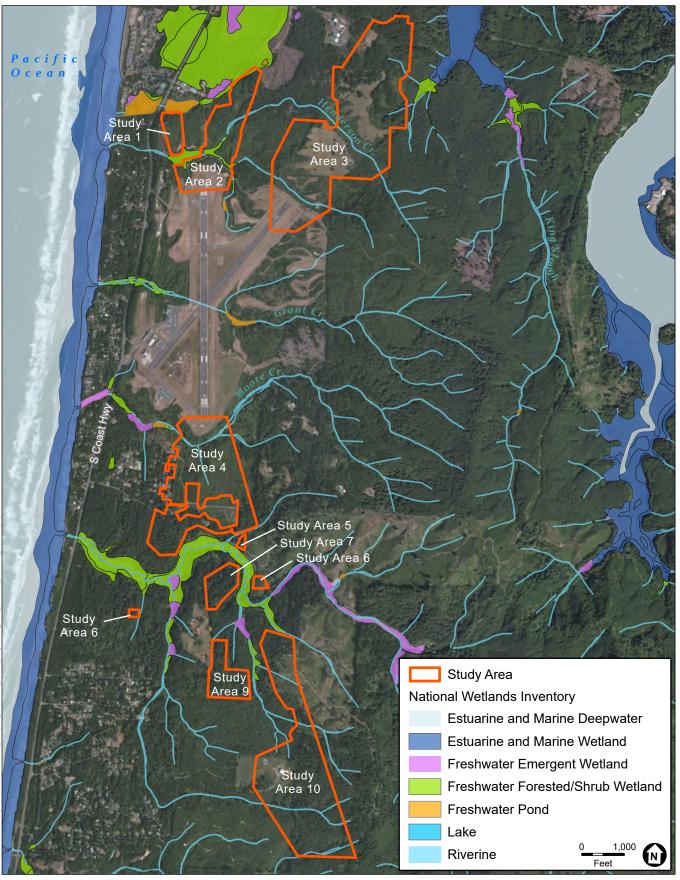


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; Lincoln County, 2017

D171238.00 Newport Airport EA

Figure 2 Tax Lot and Aerial Map Lincoln County, OR



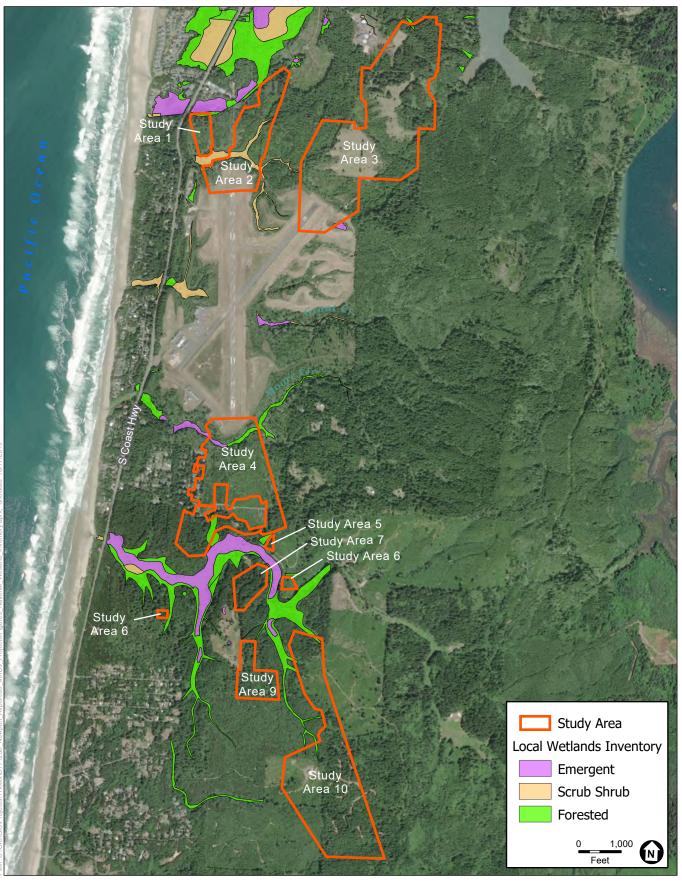


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; USFWS, 2017

D171238.00 Newport Airport EA

Figure 3A National Wetlands Inventory Map Lincoln County, OR

ESA

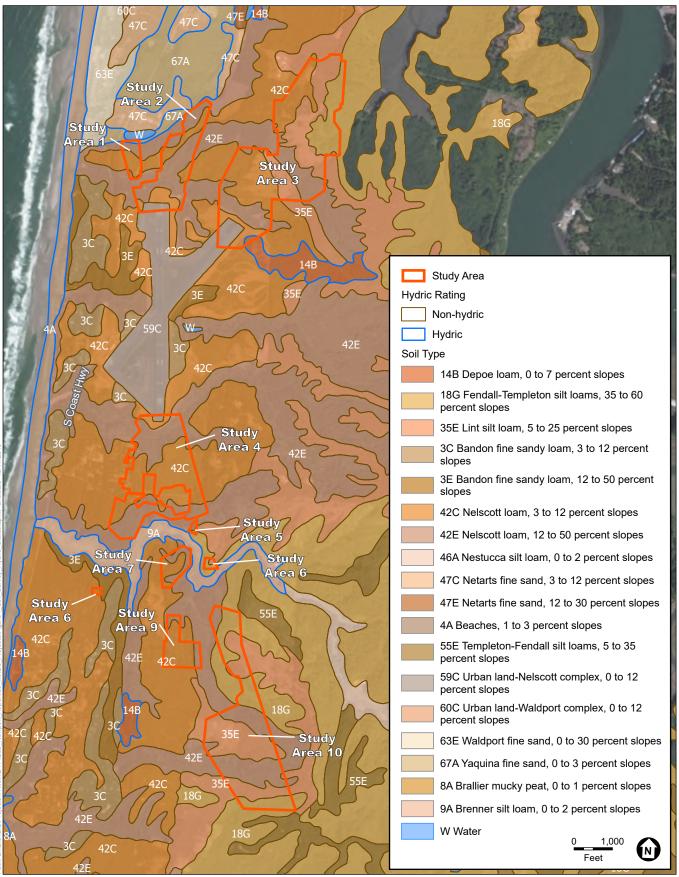


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; City of Newport, 2019

D171238.00 Newport Airport EA

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

ESA

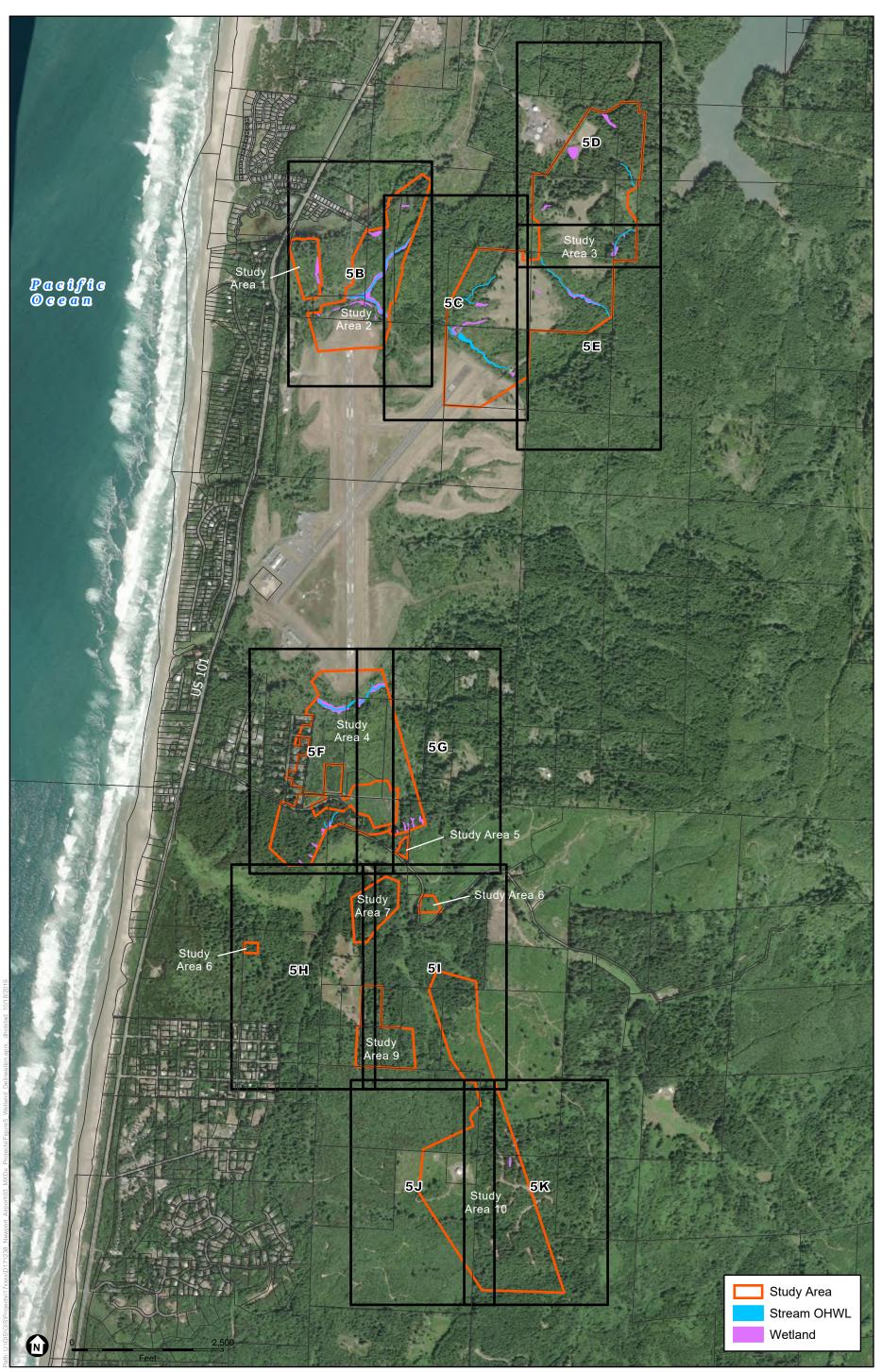


SOURCE: ESA, 2019; ESRI, 2017; Open Street Maps, 2016; NRCS, 2017

D171238.00 Newport Airport EA

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

ESA

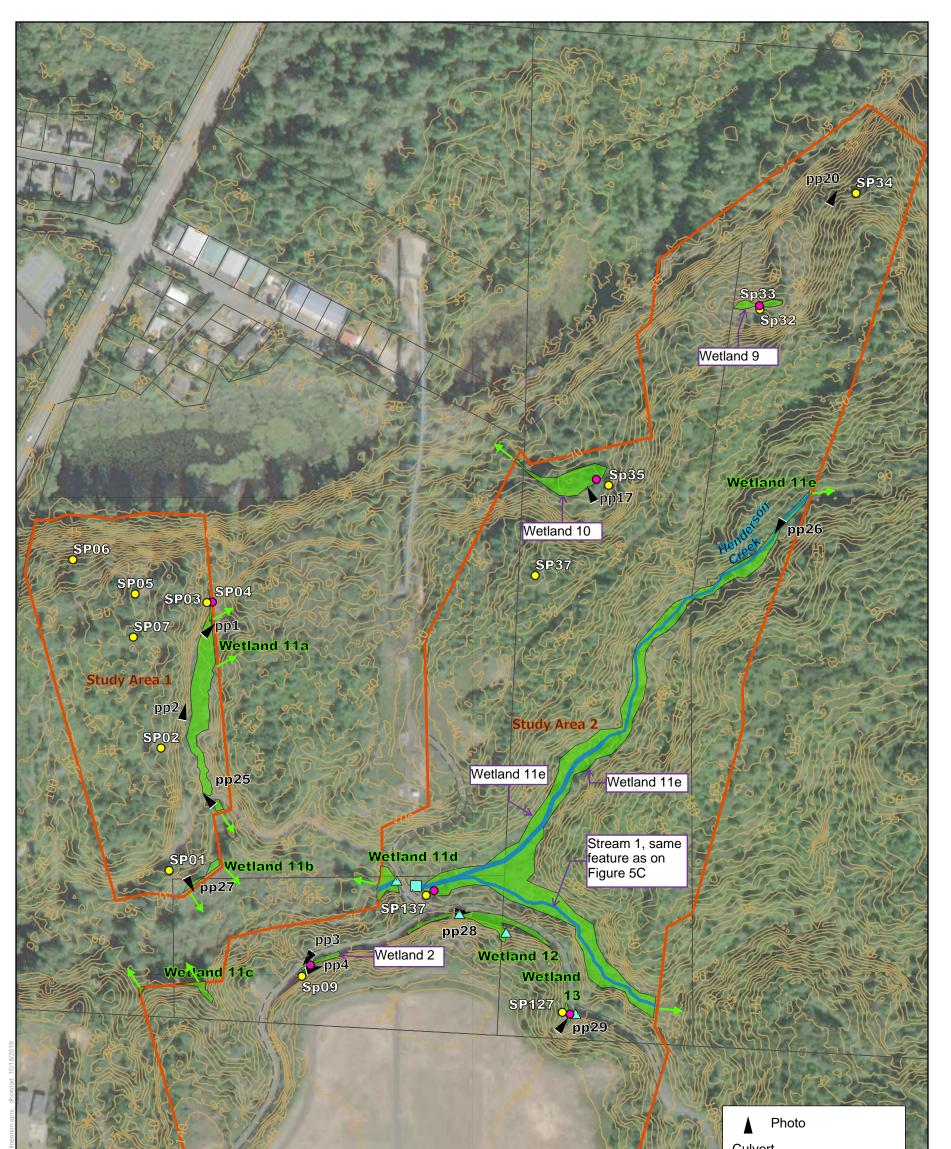


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; StreamNet, 2019; City of Newport, 2019.

D171238.00 Newport Airport EA

Figure 5A Wetland Delineation Map Lincoln County, OR

ESA

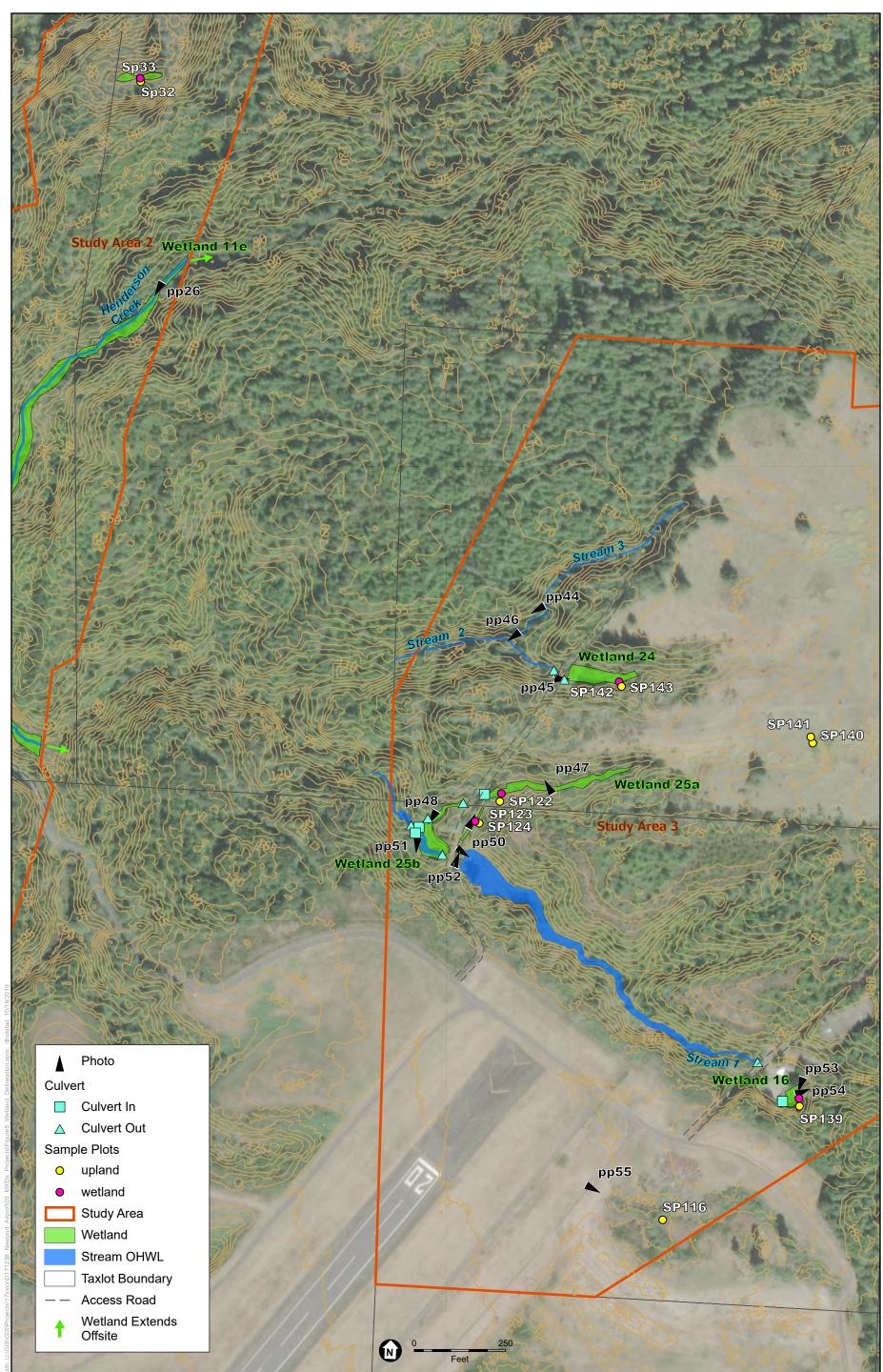




World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

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). D171238.00 Newport Airport EA

Figure 5B Wetland Delineation Map Lincoln County, OR



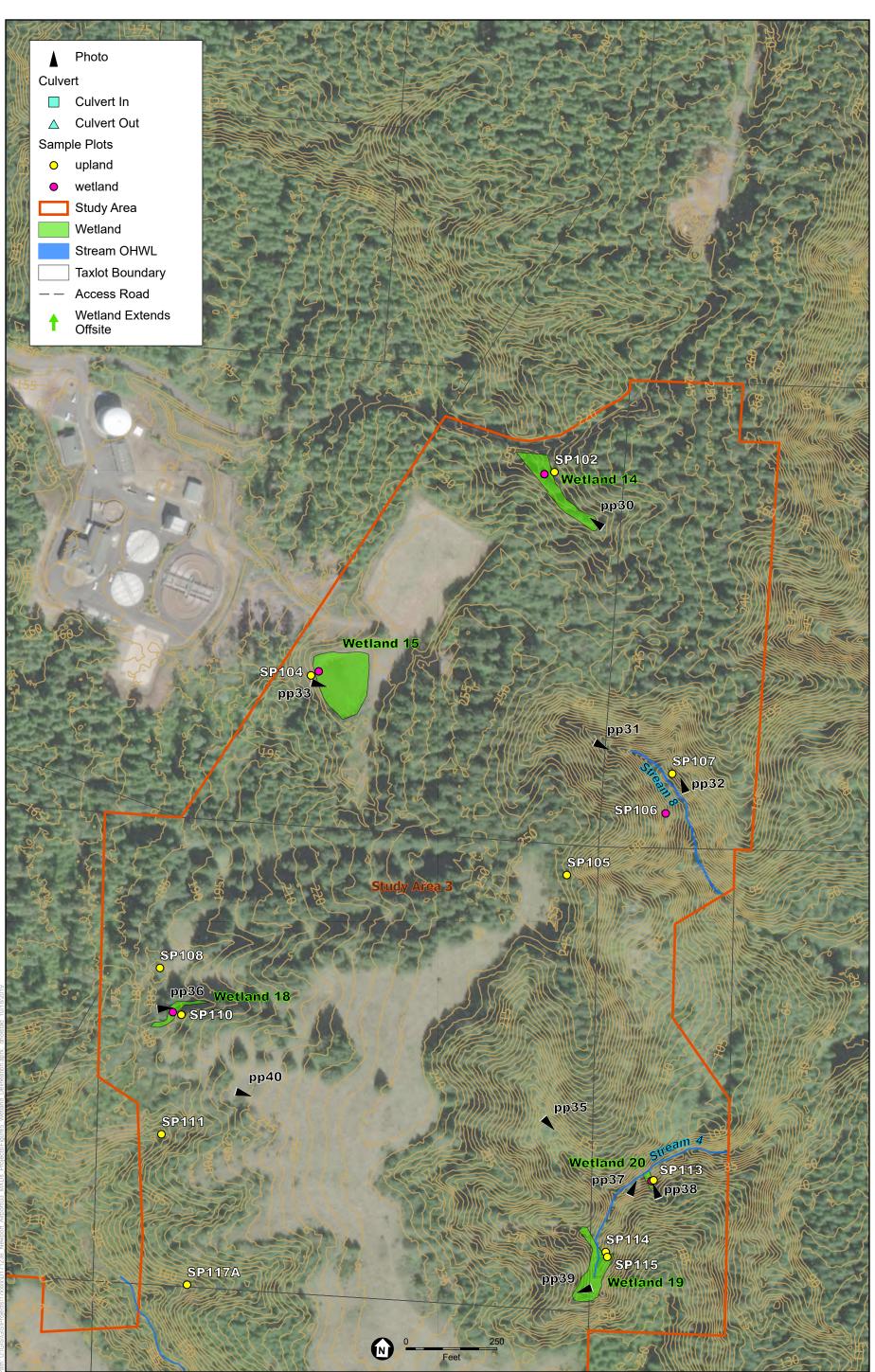
Norld Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019: DOGAMI, 2012.

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).

D171238.00 Newport Airport EA

Figure 5C Wetland Delineation Map Lincoln County, OR

ESA

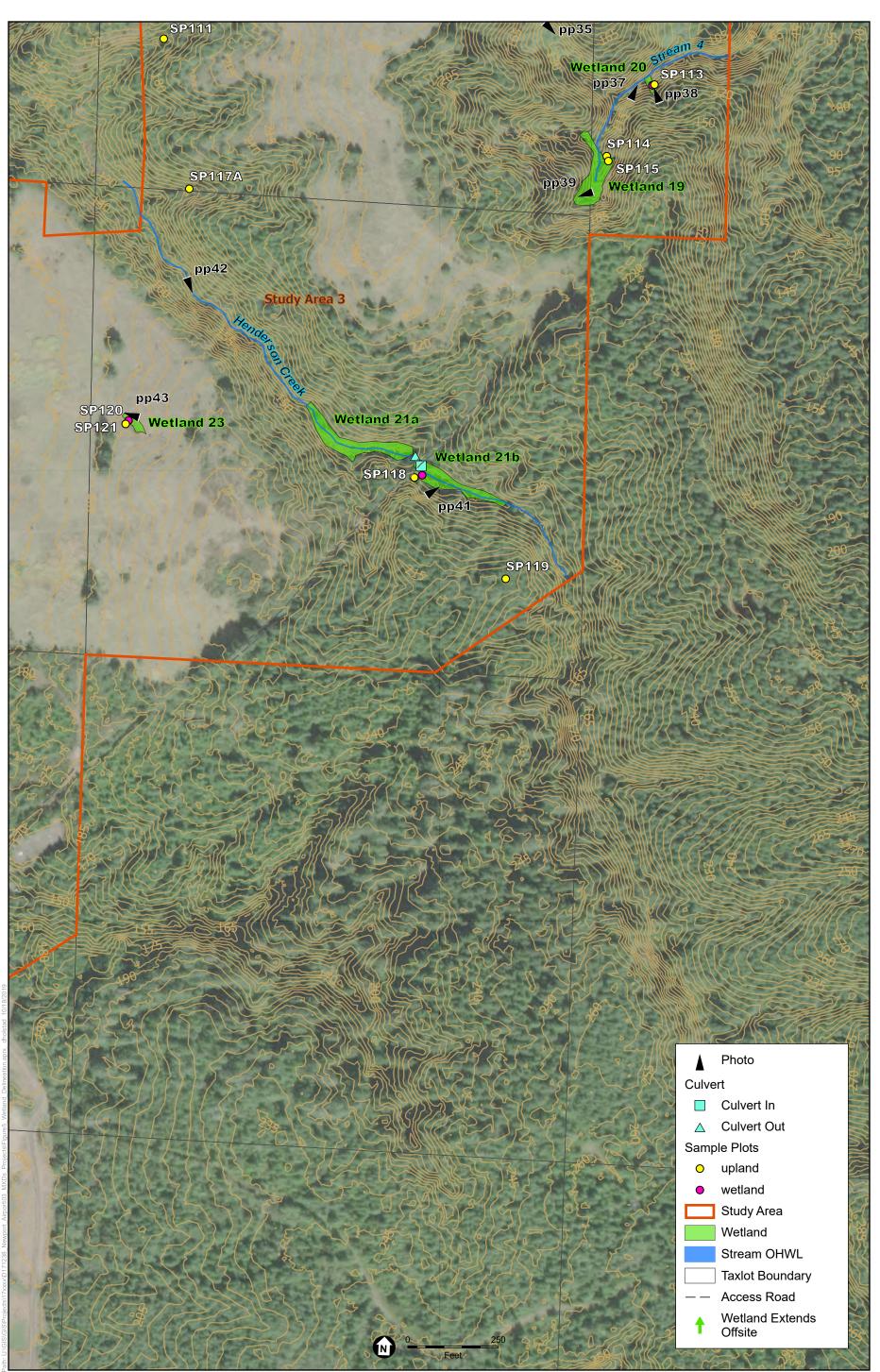


World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

ESA

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). D171238.00 Newport Airport EA

Figure 5D Wetland Delineation Map Lincoln County, OR



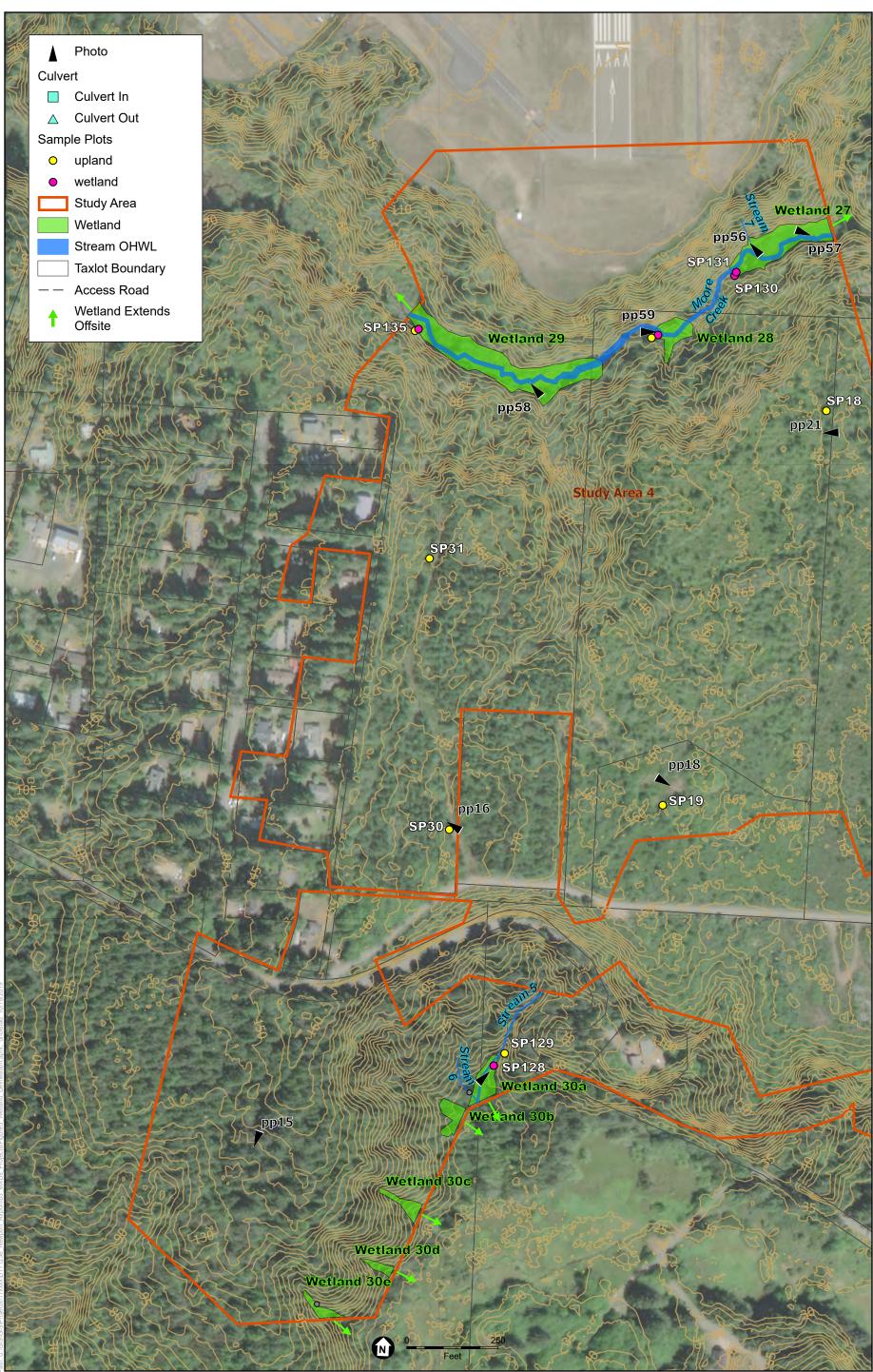
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

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 5E Wetland Delineation Map Lincoln County, OR

ESA



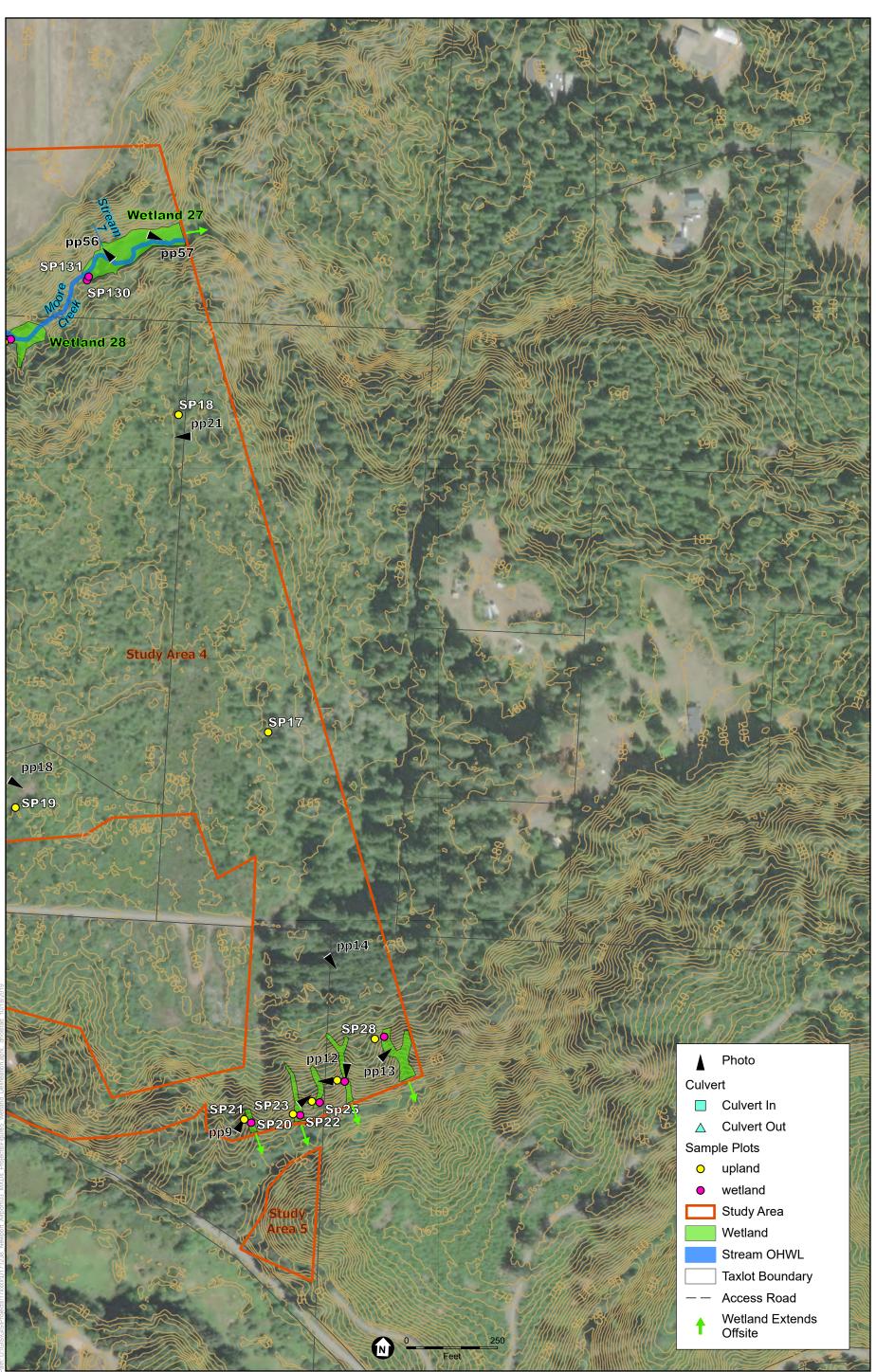
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012

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



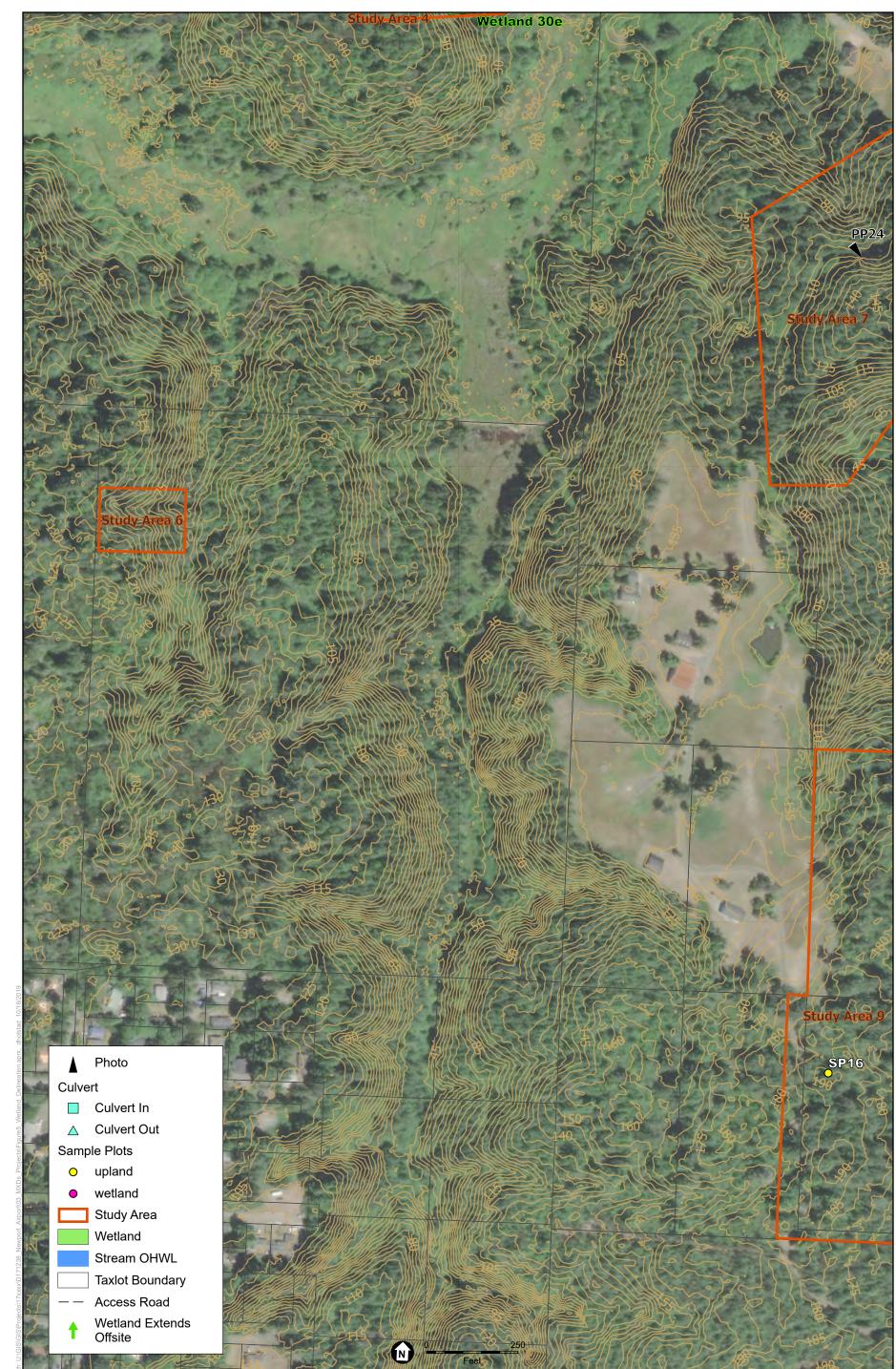


World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

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). D171238.00 Newport Airport EA

Figure 5G Wetland Delineation Map Lincoln County, OR

ESA



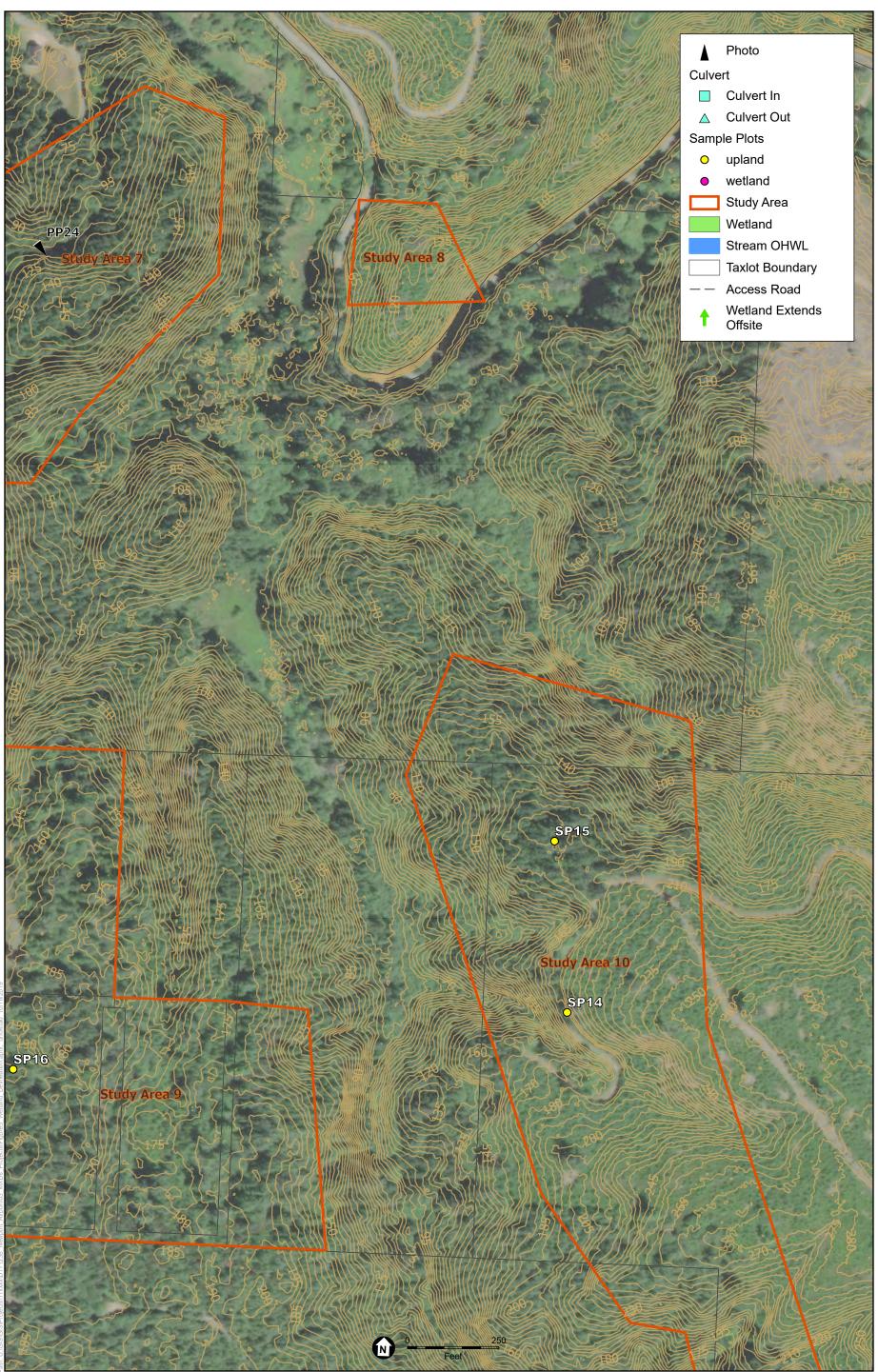
cs, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012. rce: Esri, DigitalGlobe, GeoEve, Earthstar (

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





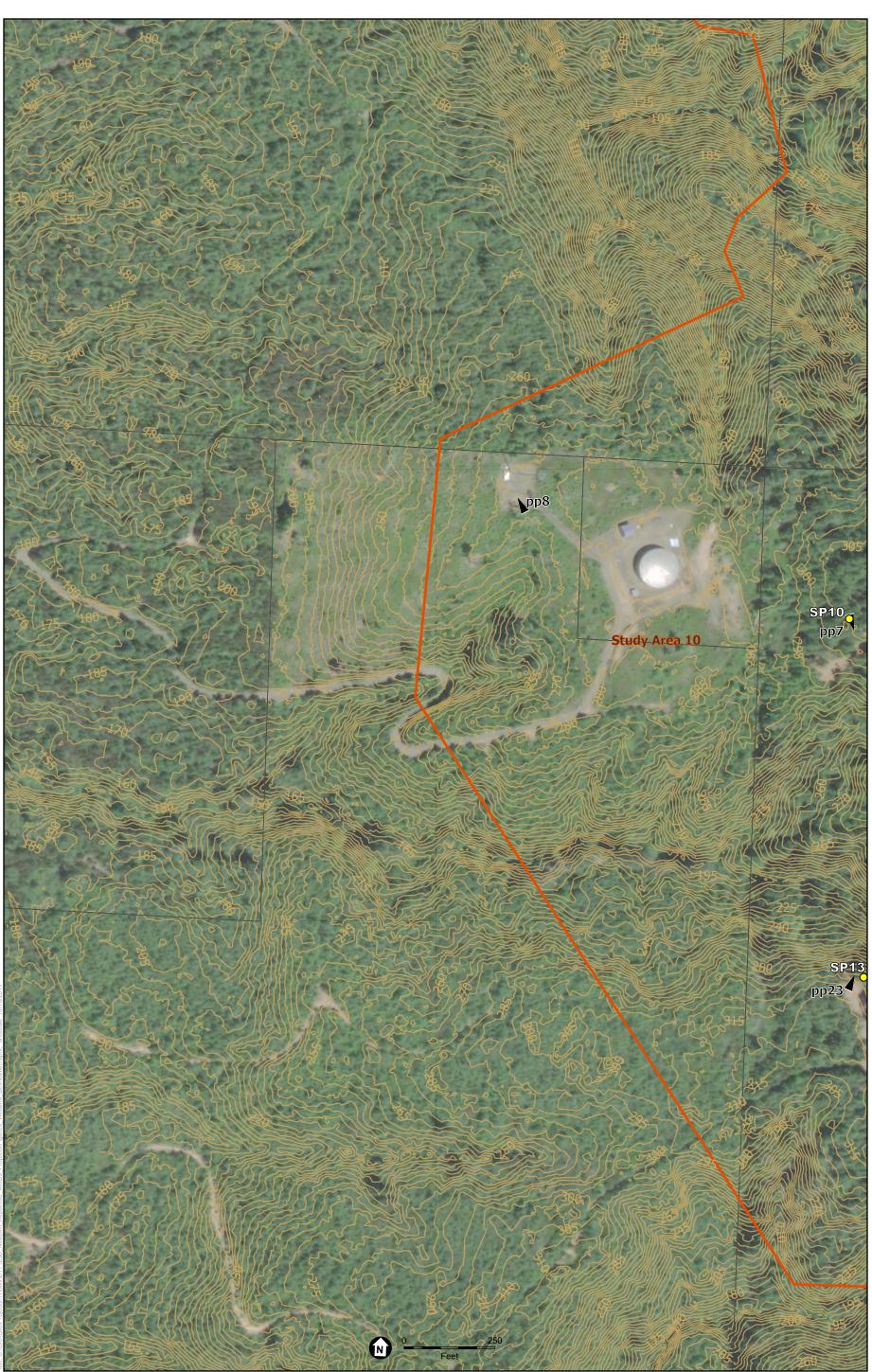
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

ESA

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 5I Wetland Delineation Map Lincoln County, OR



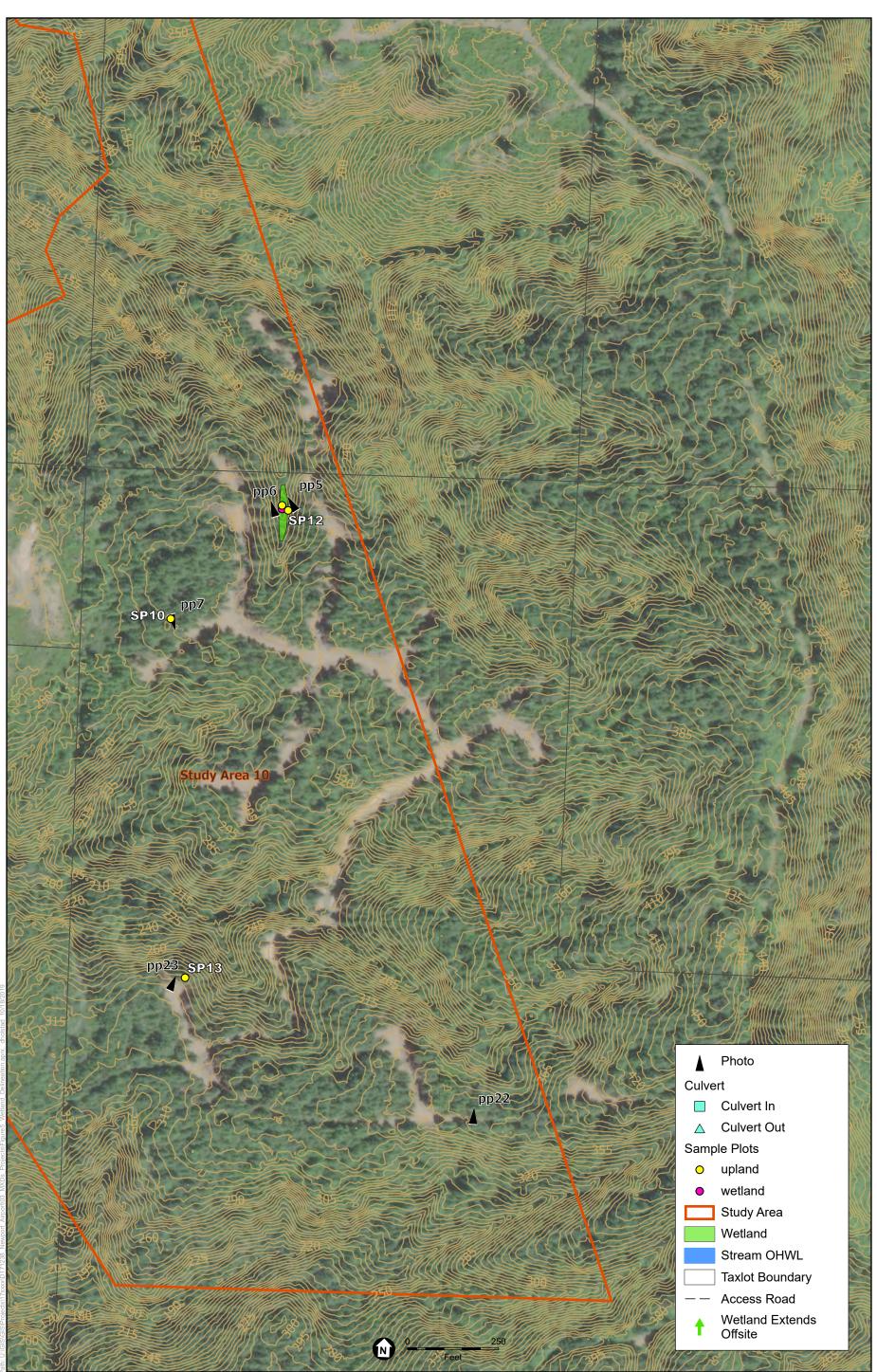
World Imagery: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; ESA, 2019; DOGAMI, 2012.

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 5J 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.

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). D171238.00 Newport Airport EA

Figure 5K Wetland Delineation Map Lincoln County, OR

ESA

APPENDIX B

Datasheets

Project/Site: Newpo	rt Municipal Air	port		City/Co	unty:	City of New	port		Sampling Da	ite:	28-May-	2019
Applicant/Owner:	City of Newpor	t					State	OR	Sampling Po	int:	SP0	1
Investigator(s): Jeff	Barna, PWS ar	nd Luke Johnson		Section	n, Tov	vnship, Rang	ge: Sect	ion 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope,	terrace, etc.):	terrace		Local reli	ief (co	oncave, conv	ex, none)	: Slope		Slope (%):	1
Subregion (LRR):	A2 - Willamet	te Valley	Lat: 4	4.589106			Long: -1	24.06186	68	Datum:	NAD83	
Soil Map Unit Name	: 42C - Nelsc	ott loam, 3 to 12	percent slope	es			N\	VI classi	fication: Near	PSCC		
Are climatic / hydrol	ogic conditions	on the site typic	al for this time	e of year?	Yes	No	X (lfı	no, expla	in in Remarks.))		
Are Vegetation	Soil	or Hydrology	significar	ntly disturbed?		Are "Norm	al Circum	stances'	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally	problematic?		(If needed	, explain a	any answ	ers in Remarks	s.)		

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

Hydrophytic Vegetation Present?	Yes X	(No						
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х	
Pomarka: Popardad proginitation in	provious mon	the woo	holow porma	L rango				

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Trop Stratum (Blat aiza) and D	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Alnus rubra	50	1	FAC	That Are OBL, FACW, or FAC: 3	(A)
2					
3				Total Number of Dominant	
4				Species Across All Strata: 5	(B)
One line (Observe Observers (DL ())	50	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)	_		FAOL	Percent of Dominant Species	
1. Vaccinium ovatum	5		FACU	That Are OBL, FACW, or FAC: 60.00 (A	4/B)
2. Sambucus racemosa	20	1	FACU	Descelar on the descent of the sta	
3. Cytisus scoparius	5		NL	Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species 2 x 1= 2	
	30	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 90 x 3= 270	
1. Carex obnupta	2		OBL	FACU species 50 x 4= 200	
2. Polystichum munitum	15	1	FACU	UPL species <u>5</u> x 5= <u>25</u>	
3. Rubus parviflorus	10		FACU	Column Totals: 147 (A) 497 (B	3)
4. Rubus spectabilis	40	1	FAC		
5.				Prevalence Index = $B/A = 3.38$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2. Dominance Test is >50%	
9.				3. Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide suppo	ortina
11.				data in Remarks or on a separate sheet)	0
· ··	67	= Total Cover		5. Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Expla	ain)
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology r	
2.				be present, unless disturbed or problematic.	
	15	= Total Cover			
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No	
				Present?	
Remarks:					

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Profile Description: (Describe to the depth r		confirm the a	absence of indicat	tors.)
Depth Matrix	Redox Features	1 . 2	_	
(inches) Color (moist) % 0-16 10 YR 3/3 100	Color (moist) % T	ype ¹ Loc ²	Texture Loam	Remarks
			Loan	
¹ Type: C=Concentration, D=Depletion, RM=Re	educed Matrix, CS=Covered or Coated	Sand Grains.	² Locatio	on: PL=Pore Lining, M=Matrix
Hydric Soil Indicators: (Applicable to all LRF	Rs, unless otherwise noted.)			oblematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A	(10)
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent M	laterial (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except I	MLRA 1)	Very Shallow	Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain	n in Remarks)
Depleted Below Dark Surface (A11)	_ Depleted Matrix (F3)		andiantara of hude	rophytic vegetation and
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)			blogy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)			bed or problematic.
				·
Restrictive Layer (if present):				
Type: Depth (inches):	-	Hydric Soil	Present? Yes	No X
	-	ingane con		
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required; of	check all that apply)		Secondary Ind	dicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (exce	ept MLRA		ined Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)		4A, and	d 4B)
Saturation (A3)	Salt Crust (B11)			Patterns (B10)
Water Marks (B1) Sediment Deposits (B2)	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)			n Water Table (C2) Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Livi	ina Roots (C3)		ic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	g		quitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled S	()		ral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) ((LRR A)		t Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		Frost-Heav	ve Hummocks (D7)
Field Observations: Surface Water Present? Yes N	o X Depth (Inches): NA			
Water Table Present? Yes N	/	-		
Saturation Present? Yes N	o X Depth (Inches): >16	Wetlar	nd Hydrology Pres	sent? Yes <u>No X</u>
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monit	toring well, aerial photos, previous insp	ections), if ava	ailable:	
Remarks:				

Project/Site: Newpo	rt Municipal	Airport		City/County:	City of Newp	ort		Sampling Date	e: 28-Ma	y-2019
Applicant/Owner:	City of New	port				State:	OR	Sampling Poin	nt: SF	02
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section, Tov	wnship, Rang	e: Sectio	on 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, etc.	.): hillslope		Local relief (co	oncave, conv	ex, none):	convex	S	lope (%):	5
Subregion (LRR):	A2 - Willan	nette Valley	Lat: 44.45	9976		Long: -12	4.06200	3 D	atum: NAD8	3
Soil Map Unit Name	e: 42C - Ne	Iscott loam, 3 to 12 p	ercent slopes			NW	/I classif	ication: None		
Are climatic / hydrol	ogic conditic	ons on the site typical	for this time of y	ear? Yes	No 2	K (lf no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Norma	al Circums	tances"	presentí Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain a	ny answ	ers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes X	K No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1. Picea sitchensis	15	1	FAC	That Are OBL, FACW, or FAC: (A)
2. Pinus contorta	35	1	FAC	
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	50	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	80	1	FAC	That Are OBL, FACW, or FAC: 80.00 (A/B)
2. Gaultheria shallon	10		FACU	、
3.				Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species 1 x 1= 1
	90	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 145 x 3= 435
1. Carex obnupta	1		OBL	FACU species 45 x 4= 180
2. Polystichum munitum	35	1	FACU	UPL species x 5=
2		· ·	17.00	
				Column Totals: <u>191</u> (A) <u>616</u> (B)
4 5				Prevalence Index = $B/A = 3.23$
6.				Hydrophytic Vegetation Indicators:
7.				1. Rapid Test For Hydrophytic Vegetation
8				X 2. Dominance Test is >50%
9.				3. Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
···· <u> </u>	36	= Total Cover		5. Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1 Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	15	= Total Cover		
% Bare Ground in Herb Stratum				Hydrophytic Vegetation Yes x No
				Vegetation Yes <u>x</u> No Present?
Remarks:				•

US Army Corps of Engineers

(inches) Color (moist)	% Co	or (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16 10 YR 3/3	100					Sandy loam	
					_		
					_		
¹ Type: C=Concentration, D=Depletion				ted Sand	Grains.		ion: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
			ieu.)				-
Histosol (A1) Histic Epipedon (A2)		v Redox (S5) ed Matrix (S6)				2 cm Muck	Material (TF2)
Black Histic (A3)		y Mucky Mineral			(1)		w Dark Surface (TF12)
Hydrogen Sulfide (A4)		y Gleyed Matrix			,		ain in Remarks)
Depleted Below Dark Surface (A1)		ted Matrix (F3)	(1 2)				an in Kenarks
Thick Dark Surface (A12)	,	Dark Surface (F6)			3Indicators of h	drophytic vegetation and
Sandy Mucky Mineral (S1)		ted Dark Surfac	,			-	Irology must be present,
Sandy Gleyed Matrix (S4)	Redo	CDepressions (F	-8)			unless distu	urbed or problematic.
estrictive Layer (if present):							
Type:							
Depth (inches):				Hyd	Iric Soil	Present? Ye	es No X
Depth (inches):				Hyd	Iric Soil	Present? Ye	es <u>No X</u>
				Hyd	Iric Soil	Present? Ye	es <u>No X</u>
Depth (inches):				Hyd	Iric Soil	Present? Ye	es <u>No X</u>
Depth (inches):				Hyd	Iric Soil	Present? Ye	es <u>No X</u>
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators:				Hyd	Iric Soil		
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re	•					Secondary	Indicators (2 or more required)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1)	W	ater-Stained Lea				Secondary Water-S	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	W	ater-Stained Lea				Secondary Water-S 4A, a	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 Ind 4B)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1)	W Sa	ater-Stained Lea)			Secondary Water-S 4A, a	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3)	W Sa Ac	ater-Stained Lea , 2, 4A, and 4B It Crust (B11)) tes (B13)			Secondary Water-S 4A, a Drainage Dry-Sea	Indicators (2 or more required) tained Leaves (B9) (MLRA 1 , 2 and 4B) e Patterns (B10) son Water Table (C2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	— W Sa Ac Hy	ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra) tes (B13) Odor (C1)	except M	_ LRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio	Indicators (2 or more required) tained Leaves (B9) (MLRA 1 , 2 and 4B) e Patterns (B10) son Water Table (C2)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	W Sa Ac Hy Oy Pr	ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduc) tes (B13) Odor (C1) heres along ced Iron (C	except M Living Ro 4)	LRA	Secondary Water-S 4A, a Drainaga Dry-Sea Saturatio Geomor Shallow	Indicators (2 or more required) tained Leaves (B9) (MLRA 1 , 2 ind 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	— W Sa Ac Hy Oy Pr Re	ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduce cent Iron Reduce) Odor (C1) heres along ced Iron (C ction in Tille	Except M Living Ro 4) d Soils (0	LRA Dots (C3	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	W Sa Ac Hy Oy Oy Pr Re St	ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduc cent Iron Reduc unted or Stresse) Odor (C1) neres along ced Iron (C ction in Tille ed Plants (D	Except M Living Ro 4) d Soils (0	LRA Dots (C3	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 1 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduce cent Iron Reduce) Odor (C1) neres along ced Iron (C ction in Tille ed Plants (D	Except M Living Ro 4) d Soils (0	LRA Dots (C3	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surf Field Observations:		ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduc cent Iron Reduc unted or Stresse her (Explain in F) Odor (C1) heres along ced Iron (C ction in Tille ad Plants (E Remarks)	Except M Living Ro 4) d Soils (0 11) (LRR	LRA Dots (C3	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surf Field Observations: Surface Water Present? Yes		ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduc cent Iron Reduc unted or Stresse her (Explain in F) Odor (C1) heres along ced Iron (C ction in Tille ad Plants (E Remarks) hes): <u>N</u>	Except M Living Ro 4) d Soils (0 11) (LRR	LRA Dots (C3	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surf Field Observations:		ater-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduc cent Iron Reduc unted or Stresse her (Explain in F) tes (B13) Odor (C1) heres along ced Iron (C ction in Tille ad Plants (E Remarks) hes): <u>N/</u> hes): <u>>1</u>	Except M Living Rd 4) d Soils (0 11) (LRR	LRA Doots (C3 C6) A)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one regeneration of an ergeneration of an ergeneration (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Image Sparsely Vegetated Concave Surf Field Observations: Surface Water Present? Yes Water Table Present? Yes		Atter-Stained Lea , 2, 4A, and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduc cent Iron Reduc unted or Stresse her (Explain in F Depth (Incl Depth (Incl) tes (B13) Odor (C1) heres along ced Iron (C ction in Tille ad Plants (E Remarks) hes): <u>N/</u> hes): <u>>1</u>	Except M Living Rd 4) d Soils (0 01) (LRR	LRA Doots (C3 C6) A)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised A Frost-He	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one regeneration of the second sec		ater-Stained Lea J , 2 , 4A , and 4B It Crust (B11) uatic Invertebra drogen Sulfide (idized Rhizosph esence of Reduc- cent Iron Reduc- unted or Stresse her (Explain in F Depth (Incl Depth (Incl Depth (Incl	tes (B13) Odor (C1) heres along ced Iron (C ction in Tille ed Plants (E Remarks) hes): <u>N/</u> hes): <u>>1</u> hes): <u>>1</u>	Eliving Ro 4) d Soils (0 01) (LRR	LRA Dots (C3 C6) A) Wetla	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised A Frost-He	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)

Project/Site: Newpo	rt Municipal	Airport		City/County:	City of Newpo	ort		Sampling Date	e: 28-Ma	y-2019
Applicant/Owner:	City of Nev	<i>r</i> port				State:	OR	Sampling Poir	nt: SF	°03
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section, Tov	wnship, Range	Sectio	on 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, etc	c.): terrace		Local relief (co	oncave, conve	x, none):	none	S	Slope (%):	1
Subregion (LRR):	A2 - Willar	mette Valley	Lat: 44.59	1029		_ong: <u>-12</u>	4.06160	8 C	atum: NAD8	3
Soil Map Unit Name	: 42E - Ne	elscott loam, 12 to 50 p	percent slopes			NW	I classif	ication: None		
Are climatic / hydrol	ogic conditi	ons on the site typical	for this time of ye	ear? Yes	No X	(If no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norma	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain ar	ny answ	ers in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes X	K No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x
Demontros — Dependent presimitation in r							

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1. Picea sitchensis	15	1	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Pinus contorta	35	1	FAC	
3		<u> </u>		Total Number of Dominant
4				Species Across All Strata: 5 (B)
	50	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	80	1	FAC	That Are OBL, FACW, or FAC: 60.00 (A/B)
2. Gaultheria shallon	10	. <u></u> .	FACU	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5		. <u></u> .		OBL species 1 x 1= 1
	90	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 145 x 3= 435
1. Carex obnupta	1		OBL	FACU species 45 x 4= 180
2. Polystichum munitum	35	1	FACU	UPL species x 5=
3.				Column Totals: 191 (A) 616 (B)
4.				
5.				Prevalence Index = $B/A = \frac{3.23}{2}$
6.				Hydrophytic Vegetation Indicators:
7.				1-Rapid Test For Hydrophytic Vegetation
8.				X 2-Dominance Test is >50%
0				3- Prevalence Index is ≤3.0 ¹
9 10.				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
11	36	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	15			
	10	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

US Army Corps of Engineers

Profile Description: (Describe to t Depth Matrix		Redo	ox Features				
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16 10 YR 3/3	100					Sandy loam	
					_		
	= =						
						:	
¹ Type: C=Concentration, D=Depleti Hydric Soil Indicators: (Applicable				ted Sand	Grains.		ion: PL=Pore Lining, M=Matrix. Problematic Hydric Soils ³ :
Histosol (A1)	S	andy Redox (S5)				2 cm Muck	(410)
Histic Epipedon (A2)		tripped Matrix (S6)					Material (TF2)
Black Histic (A3)		pamy Mucky Minera	al (F1) (exce	ot MLRA	(1)		w Dark Surface (TF12)
Hydrogen Sulfide (A4)		pamy Gleyed Matrix		prinzio	,		ain in Remarks)
Depleted Below Dark Surface (A		epleted Matrix (F3)	/				
Thick Dark Surface (A12)	,	edox Dark Surface	(F6)			3Indicators of hy	/drophytic vegetation and
Sandy Mucky Mineral (S1)	D	epleted Dark Surfac	ce (F7)			-	drology must be present,
Sandy Gleyed Matrix (S4)	R	edox Depressions (F8)			unless distu	urbed or problematic.
Restrictive Layer (if present):							
_							
Type:							N
Type: Depth (inches): Remarks:				Hyd	Iric Soil	Present? Ye	es <u>No X</u>
Depth (inches):				Hyd	Iric Soil	Present? Ye	es <u>No X</u>
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators:	required: chec	k all that apply)		Hyd	Iric Soil		
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one 	required; chec	Water-Stained Le				Secondary Water-S	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	required; chec	Water-Stained Le 1, 2, 4A, and 4B				Secondary Water-S 4A, a	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)	required; chec	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11)	3)			Secondary Water-S 4A, a	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2)	required; chec	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	3) ates (B13)			Secondary Water-S 4A, a Drainage Dry-Sea	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	required; chec	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11)	3) ates (B13) Odor (C1)	xcept M	_ LRA	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	required; chec	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	3) ates (B13) Odor (C1) heres along	except M	_ LRA	Secondary Water-S 4A, a Drainaga Dry-Sea Saturatio Geomor	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C4
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	required; chec	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	3) Odor (C1) heres along iced Iron (C ction in Tille	Except M Living Ro 4) d Soils (0	LRA Dots (C3)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C4 phic Position (D2) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)		Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille ed Plants (D	Except M Living Ro 4) d Soils (0	LRA Dots (C3)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille ed Plants (D	Except M Living Ro 4) d Soils (0	LRA Dots (C3)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) utral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su Field Observations:	gery(B7)	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	3) Odor (C1) heres along iced Iron (C ction in Tille ed Plants (E Remarks)	Living Ro 4) d Soils (0 1) (LRR	LRA Dots (C3)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave So Field Observations: Surface Water Present? Yes		Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Ind	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille ed Plants (E Remarks)	Living Ro 4) d Soils (0 1) (LRR	LRA Dots (C3)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C9 phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su Field Observations:	gery(B7) urface (B8) No	Water-Stained Let 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Inc X Depth (Inc	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille ed Plants (E Remarks) ches): <u>N/</u> ches): <u>N/</u>	Living Ro 4) d Soils (0 1) (LRR	LRA Doots (C3) C6) A)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (CS phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su Field Observations: Surface Water Present? Yes Water Table Present? Yes	gery(B7) urface (B8) No	Water-Stained Let 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Inc X Depth (Inc	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille ed Plants (E Remarks) ches): <u>N/</u> ches): <u>N/</u>	Living Ro 4) d Soils (0 1) (LRR	LRA Doots (C3) C6) A)	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised J Frost-He	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (CS phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Ima Sparsely Vegetated Concave Su Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	gery(B7) urface (B8) No No	Water-Stained Let 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Ind X Depth (Ind X Depth (Ind	ates (B13) Odor (C1) heres along iced Iron (C ction in Tille ed Plants (E Remarks) ches): <u>N/</u> ches): <u>>1</u> ches): <u>>1</u>	Living Ro 4) d Soils (0 1) (LRR	LRA Doots (C3) C6) A) Wetla	Secondary Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Ne Raised / Frost-He	Indicators (2 or more required) tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (CS phic Position (D2) Aquitard (D3) utral Test (D5) Ant Mounds (D6) (LRR A) eave Hummocks (D7)

Project/Site: Newport Municipal Airport		City/County:	City of Ne	wport	Sampling Date:	28-May-2019
Applicant/Owner: City of Newport				State: OR	Sampling Point:	SP04
Investigator(s): Jeff Barna, PWS and Luke Johnson		Section, To	wnship, Rai	nge: Section 29, To	wnship 11 S, Rang	e 11 S
Landform (hillslope, terrace, etc.): terrace				nvex, none): convex		e (%): 1
Subregion (LRR): A2 - Willamette Valley	Lat: 44.591		,	Long: -124.061554		m: NAD83
Soil Map Unit Name: 42E - Nelscott Ioam, 12 to 50 perce					ication: None	
Are climatic / hydrologic conditions on the site typical for t		ear? Yes	No		n in Remarks.)	
, , , , , , , , , , , , , , , , , , , ,	ignificantly di			mal Circumstances"	•	No
				ed, explain any answe		
Are Vegetation Soil or Hydrology n	aturaliy probi	ematic	(ii neede	eu, explain any answe	is in Remarks.)	
SUMMARY OF FINDINGS – Attach site map	o showing	sampling	point lo	cations, transec	ts, important f	eatures, etc.
Hydrophytic Vegetation Present? Yes X	No					
Hydric Soil Present? Yes X	No	Is the	Sampled A	rea		
Wetland Hydrology Present? Yes X	No	within	a Wetland	? Yes X	No	
Remarks: wetland is on edge of compacted forest acce	hes road					
Soils not hydric. Layer with a dominant chror		nan 2 must be	less than 6	inches.		
Recorded precipitation in previous months w						
VEGETATION – Use scientific names of pla	nts	0				
	Absolute	Dominant	Indicator	Dominance Test w	workshoot:	
Tree Stratum (Plot size: 30' R)	Absolute % Cover	Species?	Status	Number of Domina		
1. Alnus rubra	80	1	FAC	That Are OBL, FAC	•	2 (A)
	00		FAC	That Ale OBL, FAC	///, OI FAC.	2 (A)
2 3.				Total Number of Do	minont	
4				Species Across All		3 (B)
4				Species Across Air		З (В)
Copling/Chruh Strotum (Dist size: 201 D)	80	= Total Cover		Deveent of Develop	nt Creation	
Sapling/Shrub Stratum (Plot size: <u>30' R)</u>	10		540	Percent of Dominal	•	
1. Rubus spectabilis	10		FAC	That Are OBL, FAC	W, or FAC: 6	66.67 (A/B)
2. Gaultheria shallon	10		FACU	Drevelence Index		
3				Prevalence Index		
4			·	Total % Cover		tiply by:
5				OBL species	75 x 1=	75
	20	= Total Cover		FACW species	x 2=	
Herb Stratum (Plot size: 5' R)				FAC species	105 x 3=	315
1. Carex obnupta	75	1	OBL	FACU species	11 x 4=	44
2. Athyrium cyclosorum	1		FAC	UPL species	x 5=	
3. Polystichum munitum	1		FACU	Column Totals:	<u>191</u> (A)	434 (B)
4						
5				Prevalence In	dex = B/A =	2.27
6				Hydrophytic Veg	etation Indicators:	
7.				1-Rapid Test	For Hydrophytic Veg	getation
8.				X 2- Dominance	Test is >50%	
9.				X 3- Prevalence	Index is ≤3.0 ¹	
10.				4- Morphologia	cal Adaptations ¹ (Pro	ovide supporting
11.					arks or on a separa	
	77	= Total Cover			n-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic	Hydrophytic Vegeta	ation ¹ (Explain)
1. Rubus armeniacus	15	1	FAC		Iric soil and wetland	
2.					s disturbed or probl	
	15	= Total Cover		•		
% Para Craund in Llark Starture	10	= rotal Cover		Hydrophytic	Vee V	Na
% Bare Ground in Herb Stratum				Vegetation	Yes X	No
				Present?		
Remarks: wetland is on edge of compacted forest ac	cess road					

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Profile Des	cription: (Describ	e to the depth ne	eded to document th	ne indicator	or confi	rm the a	bsence of indic	cators.)
Depth	Matrix	(Redo	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10 YR 4/4	60	2.5 YR 4/6	40	<u>C</u>	M	Sand	
6-16	10 YR 4/1	90	10 Yr 4/6	10	С	M	Sandy Loam	
71		1 1	duced Matrix, CS=Cov		ted Sand	Grains.		tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all LRRs	s, unless otherwise n	oted.)			Indicators for	Problematic Hydric Soils ³ :
Histoso	ol (A1)	X	Sandy Redox (S5)				2 cm Muck	: (A10)
Histic E	Epipedon (A2)		Stripped Matrix (S6)				Red Paren	t Material (TF2)
Black H	listic (A3)		Loamy Mucky Minera	al (F1) (exce	pt MLRA	(1)	Very Shallo	ow Dark Surface (TF12)
	en Sulfide (A4)		Loamy Gleyed Matrix	: (F2)			Other (Exp	lain in Remarks)
	ed Below Dark Surfa	ce (A11)	Depleted Matrix (F3)	(50)				
	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark Surface	. ,				ydrophytic vegetation and drology must be present,
	Gleyed Matrix (S4)		Redox Depressions (urbed or problematic.
Candy				10)				dibed of problematic.
Restrictive	Layer (if present):							
Type:			-					
Depth	(inches):		-		Hyd	Iric Soil	Present? Y	es <u>X</u> No
Remarks:	Soils not hydric. La	yer with a domina	ant chroma of more that	an 2 must be	e less tha	n 6 inch	es.	
HYDROLO	DGY							
Wetland Hy	drology Indicators	:						
	dicators (minimum o		neck all that apply)				Secondary	Indicators (2 or more required)
Surface	e Water (A1)		Water-Stained Le	aves (B9) (e	except M	LRA	Water-S	Stained Leaves (B9) (MLRA 1, 2,
High W	ater Table (A2)		1, 2, 4A, and 4E	3)				and 4B)
X Saturat	()		Salt Crust (B11)					je Patterns (B10)
	Marks (B1)		Aquatic Invertebra	, ,				ason Water Table (C2)
	ent Deposits (B2) eposits (B3)		Hydrogen Sulfide Oxidized Rhizospl		Livina Ra	nots (C3)		ion Visible on Aerial Imagery (C9) rphic Position (D2)
	lat or Crust (B4)		Presence of Redu	-	-	5013 (00)		Aquitard (D3)
	posits (B5)		Recent Iron Redu	ction in Tille	d Soils (0	C6)	FAC-Ne	eutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress	ed Plants (D	01) (LRR	A)		Ant Mounds (D6) (LRR A)
	tion Visible on Aeria	0,10,1	Other (Explain in I	Remarks)			Frost-H	eave Hummocks (D7)
Sparse	ly Vegetated Conca	ve Surface (B8)						
Field Obse			. .					
		/es <u>No</u>	· · ·					
Saturation		Yes No Yes X No		· · · · · · · · · · · · · · · · · · ·		Wetla	nd Hydrology P	resent? Yes X No
	apillary fringe)	<u> </u>			—			<u> </u>
```	1 2 0 /	m gauge, monito	ring well, aerial photos	s, previous i	nspection	is), if ava	ailable:	
Remarks:								

Project/Site: Newpo	roject/Site: Newport Municipal Airport				City/County: City of Newport			Sampling Da	te: 28-N	/lay-2019	
Applicant/Owner:	City of Ne	ewport		·		St	tate:	OR	Sampling Po	int:	SP05
Investigator(s): Jeff	Barna, PV	VS and Luke Johnson		Section, To	ownship, Ran	ge: S	Sectior	n 29, To	wnship 11 S,	Range 11 S	5
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (c	concave, con	vex, no	one): r	none		Slope (%):	1
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.59	1068		Long	g: -124	.06232	9	Datum: NAI	D83
Soil Map Unit Name	: 42E - N	Nelscott loam, 12 to 50	) percent slopes	i			NWI	classif	ication: None		
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time of	f year? Yes	No	Х	(If no,	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Norn	nal Cir	cumsta	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed	d, expla	ain ang	y answe	ers in Remarks	3.)	

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

Hydrophytic Vegetation Present?	Yes >	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	х
Remarks: Recorded precipitation in		onthe way	s below porm				

Recorded precipitation in previous months was below normal range

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

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Sampling Point: SP05

Trome Description: (Describe to the depti	n needed to document the indicator or confirm the	absonce of indicators )
Depth		
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 2/2 100		Sandy loam
<u> </u>		
	Reduced Matrix, CS=Covered or Coated Sand Grains	
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	— Hydric Soil I	Present? Yes No X
	<u> </u>	
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	check all that apply)	Secondary Indicators (2 or more required)
ii		
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2) Saturation (A3)	<b>1, 2, 4A, and 4B)</b> Salt Crust (B11)	4A, and 4B)
Saturation (AS)		
Motor Marka (B1)		Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2) Drift Deposits (B3)	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations:	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8)	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes N Water Table Present? Yes N	Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Project/Site: Newpo	roject/Site: Newport Municipal Airport				City of Newpo	City of Newport			Sampling Date: 28-Mag	
Applicant/Owner:	City of New	oort				State:	OR	Sampling Poir	nt: S	P06
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section, Tov	wnship, Range:	Sectio	on 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, etc.	): hillslope		Local relief (co	oncave, conve	k, none):	none	S	Slope (%):	2
Subregion (LRR):	A2 - Willam	nette Valley	Lat: 44.591	293	L	.ong: <u>-12</u>	4.06296	6 C	Datum: NAD	83
Soil Map Unit Name	: 42E - Nel	scott loam, 12 to 50 p	ercent slopes			NW	I classif	ication: None		
Are climatic / hydrol	ogic conditio	ns on the site typical f	or this time of ye	ar? Yes	No X	(If no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	sturbed?	Are "Normal	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed, e	xplain ar	ny answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes X	K No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	X

Remarks: Recorded precipitation in previous months was below normal range

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Picea sitchensis	35	1	FAC	That Are OBL, FACW, or FAC: 4 (A	۹)
2. Alnus rubra	10	1	FAC		
3.				Total Number of Dominant	
4.				Species Across All Strata: 5 (E	3)
	45	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	50	1	FAC	That Are OBL, FACW, or FAC: 80.00 (A/	B)
2. Gaultheria shallon	10		FACU		
3. Sambucus racemosa	30	1	FACU	Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
	90	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1				FACU species x 4=	
2.				UPL species x 5=	
3.				Column Totals: (A) (B)	,
4.				、	
5.				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7.				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2. Dominance Test is >50%	
9				3. Prevalence Index is ≤3.0 ¹	
3 10.				4- Morphological Adaptations ¹ (Provide support	tina
11.				data in Remarks or on a separate sheet)	
		= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain	ו)
1 Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology mu	ust
2.				be present, unless disturbed or problematic.	
	15	Total Causer			
% Dava Crownd in Llack Chrotwan 400		= Total Cover		Hydrophytic Vegetation Yes X No	
% Bare Ground in Herb Stratum 100				Vegetation Yes <u>X</u> No Present?	
				רופטטווני	
Remarks:					

US Army Corps of Engineers

(inches) Color (moist)	% Color	Redox Features (moist) %	Type ¹	Loc ²	Texture	Remarks
0-16 10 YR 2/2	100		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200	Sandy loam	Romano
			·			
			·	—		
¹ Type: C=Concentration, D=Depletion Hydric Soil Indicators: (Applicable to			ated Sand	Grains.		PL=Pore Lining, M=Matrix oblematic Hydric Soils ³ :
Histosol (A1)						·
Histic Epipedon (A2)		edox (S5) Matrix (S6)			2 cm Muck (A Red Parent M	
Black Histic (A3)		lucky Mineral (F1) <b>(exc</b>	ept MLRA	(1)		Dark Surface (TF12)
Hydrogen Sulfide (A4)		Bleyed Matrix (F2)		,	Other (Explain	
Depleted Below Dark Surface (A11		I Matrix (F3)				,
Thick Dark Surface (A12)	Redox D	ark Surface (F6)			³ Indicators of hydr	ophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted	I Dark Surface (F7)			wetland hydro	logy must be present,
Sandy Gleyed Matrix (S4)	Redox D	epressions (F8)			unless disturb	ed or problematic.
Restrictive Layer (if present):						
Turney						
Туре:						
Remarks:			Hyd	lric Soil	Present? Yes	NoX
Depth (inches):			Hyd	lric Soil	Present? Yes	<u>No X</u>
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators:		st apply)	Hyd	Iric Soil		
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re	•				Secondary Inc	dicators (2 or more required
Depth (inches): Remarks: IYDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1)	Wate	r-Stained Leaves (B9)			<u>Secondary Inc</u> Water-Stai	dicators (2 or more required ned Leaves (B9) (MLRA 1,
Depth (inches): Remarks: IYDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re	Wate 1, 2				Secondary Inc Water-Stai 4A, anc	dicators (2 or more required ned Leaves (B9) (MLRA 1,
Depth (inches): Remarks: IYDROLOGY Netland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2)	Wate 1, 2 Salt C	r-Stained Leaves (B9) ( e, <b>4A, and 4B)</b>			Secondary Inc Water-Stai 4A, and Drainage F	dicators (2 or more required ned Leaves (B9) (MLRA 1, 1 4B)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Wate 1, 2 Salt C Aqua Hydro	r-Stained Leaves (B9) ( 2, <b>4A, and 4B)</b> Crust (B11) tic Invertebrates (B13) ogen Sulfide Odor (C1)	except M	_ LRA	Secondary Ind Water-Stai 4A, and Drainage F Dry-Seaso Saturation	dicators (2 or more required ned Leaves (B9) ( <b>MLRA 1,</b> <b>1 4B)</b> Patterns (B10) n Water Table (C2) Visible on Aerial Imagery (
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Project/Site: Newpo	Project/Site: Newport Municipal Airport				City/County: City of Newport			Sa	ampling Date:	28-May	-2019
Applicant/Owner:	City of Ne	ewport				State	: OR	Sa	ampling Point:	SP	)7
Investigator(s): Jeff	Barna, PV	VS and Luke Johnson		Section, 1	Fownship, Rang	ge: Sec	tion 29,	Town	ship 11 S, Ran	ge 11 S	
Landform (hillslope,		Local relief	(concave, conv	ex, none	): conve	ex	Slop	e (%):	1		
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.59	90759		Long: -	24.0623	328	Datu	um: NAD83	}
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slopes			Ν	WI class	sificati	ion: None		
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time o	of year? Ye	es No	X (If	no, expl	ain in	Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norm	al Circur	nstances	s" pres	sent' Yes X	No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	lematic? (If needed, ex			wers i	in Remarks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes x Yes Yes	K No No No	X X	Is the Sampled Area within a Wetland?	Yes	NoX	
Remarks: 0 herbs							
Descende des servicis itations is			le alla sur la ave				

Recorded precipitation in previous months was below normal range

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

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Sampling Point: SP07

Profile Description: (Describe to the der	oth needed to document the indicator or confirm the	e absence of indicators )
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 2/2 100		Sandy loam
	·	
	·	
	·	
	·	
	I=Reduced Matrix, CS=Covered or Coated Sand Grai	
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleved Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
		Indiantara of hydrophytic vegetation and
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric Soi	l Present? Yes No X
· · · ·		
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:	od: chock all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(Brithmann Prime Pri	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B)         Sparsely Vegetated Concave Surface of	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 7) Other (Explain in Remarks) (B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B)         Sparsely Vegetated Concave Surface of         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) T) Other (Explain in Remarks) (B8) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B)         Sparsely Vegetated Concave Surface of         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         (B8)         No       X         Depth (Inches):       NA         No       X	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B2)         Sparsely Vegetated Concave Surface (Concave Surfa	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         (B8)         No       X         Depth (Inches):       NA         No       X	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B2)         Sparsely Vegetated Concave Surface (Concave Surfa	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         (B8)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B2)         Sparsely Vegetated Concave Surface (Concave Surfa	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         (B8)         No       X         Depth (Inches):       NA         No       X	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(Bi         Sparsely Vegetated Concave Surface (Bi)         Surface Water Present?         Yes         Water Table Present?         Yes         Gaturation Present?         Yes         Includes capillary fringe)         Describe Recorded Data (stream gauge, mage)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         (B8)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B2)         Sparsely Vegetated Concave Surface (Concave Surfa	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         (B8)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpo	rt Municip	al Airp	oort		City/	County:	City of Nev	vport			Sampling Da	ate:	28-May	/-2019	
Applicant/Owner:	City of Ne	ewport	t					S	tate:	OR	Sampling Po	pint:	SP	08	
Investigator(s): Jeff	Barna, PV	VS an	d Luke Johnson		Sec	tion, Tow	/nship, Ran	ge:	Sectio	n 29, To	wnship 11 S,	Range	11 S		
Landform (hillslope,	terrace, e	etc.):	terraces		Local	relief (cc	ncave, con	ivex, n	one): o	convex		Slope	(%):	3	
Subregion (LRR):	A2 - Will	amett	e Valley	Lat:	44.588475			Long	g: <u>-12</u> 4	.06041	5	Datum	: NAD83	3	
Soil Map Unit Name	: 42E - N	Velsco	ott loam, 12 to 50	percent slo	opes				NWI	classifi	cation: Near	PSCC			
Are climatic / hydrol	ogic cond	itions	on the site typica	l for this tin	ne of year?	Yes	No	Х	(lf no	, explaiı	n in Remarks.	)			
Are Vegetation	Soil	Х	or Hydrology	signific	antly disturbe	ed?	Are "Norr	nal Cir	cumst	ances"	present' Yes	Х	No		
Are Vegetation	Soil		or Hydrology	natural	lly problematio	c?	(If neede	d, expl	ain an	y answe	ers in Remark	s.)	_		

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	X	No
Remarka: Recorded precipitation in pre	vieue m	ontho	waa halaw narmal r	2222			

Remarks: Recorded precipitation in previous months was below normal range

Soils are fill material, however, assumed to be hydric based on wetland hydrology and hydrophytic plants.

### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1.				That Are OBL, FACW, or FAC:	2 (A)
2.				_	
3.				Total Number of Dominant	
4.				Species Across All Strata:	2 (B)
		= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1.				That Are OBL, FACW, or FAC:	100.00 (A/B)
2.				_	
3.				Prevalence Index worksheet:	
4.				Total % Cover of:	Multiply by:
5.				OBL species 1 x 1:	= 1
		= Total Cover		FACW species 35 x 2	= 70
Herb Stratum (Plot size: 5' R)				FAC species 35 x 3	= 105
1. Holcus lanatus	30	1	FAC	FACU species 5 x 4:	= 20
2. Equisetum arvense	5		FAC	·	=
3. Lysichiton americanus	1		OBL	Column Totals: 76 (A)	196 (B)
4. Juncus effusus	20	1	FACW		(-)
5. Epilobium ciliatum	15		FACW	Prevalence Index = B/A =	2.58
6. Rubus parviflorus	5		FACU	Hydrophytic Vegetation Indicate	ors:
7				1- Rapid Test For Hydrophytic	
8				X 2- Dominance Test is >50%	
0				X 3. Prevalence Index is $\leq 3.0^{1}$	
10				4- Morphological Adaptations ¹	(Provide supporting
11				data in Remarks or on a se	
····	76	= Total Cover		5- Wetland Non-Vascular Plan	,
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Ve	
				¹ Indicators of hydric soil and wetl	
1 2.				be present, unless disturbed or p	
۲				· · · ·	robiernatic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X	No
				Present?	
Remarks:					

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Profile Description: (Describe to the depth	needed to document the indicator or confirm the a	absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) % 0-16 Fill	Color (moist) % Type ¹ Loc ²	Texture Remarks Refusal at 6 inches
	·	
	·	
·	·	
	·	
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LF	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	X Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	Indicators of hydrophytic vegetation and
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Depth (inches):	Hydric Soil	Present? Yes X No
· · · ·		
Remarks: Soils are fill material, however, a	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)
X Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
X High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
X Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) ) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Othern (Franksin, Bransenhar)	Frost-Heave Hummocks (D7)
	Other (Explain in Remarks)	
Sparsely Vegetated Concave Surface (B		
Sparsely Vegetated Concave Surface (Ba	₃₎	
Sparsely Vegetated Concave Surface (Ba Field Observations: Surface Water Present? Yes X	3) No Depth (Inches):4	
Sparsely Vegetated Concave Surface (Bill         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	3)	Ind Hydrology Present? Yes X No
Sparsely Vegetated Concave Surface (Ba Field Observations: Surface Water Present? Yes X	3)	Ind Hydrology Present? Yes X No
Sparsely Vegetated Concave Surface (Bild Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	3)	
Sparsely Vegetated Concave Surface (Bild Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No         Depth (Inches):         4           No         Depth (Inches):            No         Depth (Inches):            No         Depth (Inches):	

Project/Site: Newport Municipal Airport		City/County:	City of Ne	ewport Sampling Date: 28-May-2019
Applicant/Owner: City of Newport				State: OR Sampling Point: SP09
Investigator(s): Jeff Barna, PWS and Luke Johnson		Section, To	wnship, Ra	inge: Section 29, Township 11 S, Range 11 S
Landform (hillslope, terrace, etc.): terrace		Local relief (c	oncave, co	onvex, none): convex Slope (%): 4
Subregion (LRR): A2 - Willamette Valley	Lat: 44.588	392		Long: -124.060495 Datum: NAD83
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 p	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 di	sturbed?	Are "No	rmal Circumstances" present' Yes X No
Are Vegetation Soil or Hydrology	naturally probl	ematic?	(If need	ed, explain any answers in Remarks.)
			g point l	locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No X			
Hydric Soil Present? Yes	No X	Is the	Sampled A	Area
Wetland Hydrology Present? Yes	No <u>X</u>	within	a Wetland	1? Yes <u>No X</u>
Remarks: Veg has been mowed within ditch feature 4% slope	e			
Recorded precipitation in previous month	hs was below n	ormal range		
VEGETATION – Use scientific names of	plants.			
Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Number of Dominant Species
1. Picea sitchensis	35	1	FAC	That Are OBL, FACW, or FAC:3 (A)
2. Pseudotsuga menziesii	20	1	FACU	Total Number of Dominant
3 4				
4				Species Across All Strata: 7 (B)
Sapling/Shrub Stratum (Plot size: 30' R)	55 :	= Total Cover		Percent of Dominant Species
1. Rubus parviflorus	20	1	FACU	
2. Gaultheria shallon	40	1	FACU	That Are OBL, FACW, or FAC: 42.86 (A/B)
3.		<u> </u>	17100	Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species x 1=
	60	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 100 x 3= 300
1. Linnaea borealis	5	1	FACU	FACU species 90 x $4=$ 360
2. Equisetum arvense	50	1	FAC	UPL species x 5=
3. Polystichum munitum	5		FACU	Column Totals: 190 (A) 660 (B)
4.				
5.				Prevalence Index = $B/A = 3.47$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				2- Dominance Test is >50%
9.				3. Prevalence Index is $\leq 3.0^1$
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	60 :	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	15	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	15	= Total Cover		
% Bare Ground in Herb Stratum				Hydrophytic Vegetation Yes No X
				Present?
Demostrate Vag has been metered within disch ford				n recent :
Remarks: Veg has been mowed within ditch feat	ure			

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Sampling Point: SP09

Profile Description: (Describe to the depti	needed to document the indicator or confirm the	he absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-4 10 YR 2/2 100		Sandy loam
4-16 10 YR 2/2		gravelly loan
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Grai	ins. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all LI		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:	-	
Depth (inches):	Hydric Soi	il Present? Yes No X
Remarks: 4% slope		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C	3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B	3)	
Field Observations:		
	lo X Depth (Inches): NA	
	lo X Depth (Inches): >16	
Water Table Present? Yes N		and Hydrology Present? Yes No X
	lo X Depth (Inches): >16 Wetl	
	lo_XDepth (Inches):>16Wetl	
Saturation Present? Yes N (includes capillary fringe)	Io_X     Depth (Inches):     >16     Weth       nitoring well, aerial photos, previous inspections), if	· · · · · · · · · · · · · · · · · · ·
Saturation Present? Yes N (includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·
Saturation Present? Yes N (includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·

Project/Site: Newpo	rt Municipa	al Airport		City/Coun	ty: City of New	/port			Sampling Dat	ie: 2	28-May-2	2019
Applicant/Owner:	City of Ne	wport		_		St	ate:	OR	Sampling Poi	nt:	SP10	)
Investigator(s): Jeff	Barna, PW	'S and Luke Johnson		Section,	Fownship, Ran	ge: S	Section	n 29, To	ownship 11 S, I	Range 1	1 S	
Landform (hillslope,	terrace, et	c.): terrace		Local relief	(concave, con	vex, no	one): r	none	5	Slope (%	%):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.5	4934		Long	j: -124	.04804	4 [	Datum:	NAD83	
Soil Map Unit Name	: 35E - Li	nt silt loam, 5 to 25 p	ercent slopes				NWI	classif	ication: None			
Are climatic / hydrole	ogic condit	ions on the site typic	al for this time	of year? Ye	es <u>No</u>	Х	(If no,	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norn	nal Ciro	cumsta	ances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	(If needed	d, expla	ain ang	y answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes	No No	X	Is the Sampled Area			
Wetland Hydrology Present?	Yes Yes		X	within a Wetland?	Yes	No	х
Remarks: Clear cut							

Recorded precipitation in previous months was below normal range

### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
	% Cover	Species?	Status	Number of Dominant Species	( • )
1				That Are OBL, FACW, or FAC:	(A)
2				Tatal Number of Daminant	
3				Total Number of Dominant	
4				Species Across All Strata:	(B)
Sapling/Shrub Stratum (Plot size: 30' R)		= Total Cover		Percent of Dominant Species	
1. <u> </u>				That Are OBL, FACW, or FAC: #DIV/0!	(A/B)
2.					(,,,,,)
3.				Prevalence Index worksheet:	
4.				Total % Cover of: Multiply by:	
5.				OBL species x 1=	
		= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1				FACU species x 4=	
				UPL species x 5=	
2					(B)
4				(),)	(2)
5				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide sup	porting
11				data in Remarks or on a separate sheet)	
	:	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Exp	olain)
1				¹ Indicators of hydric soil and wetland hydrology	/ must
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100					х
				Present?	<u>~</u>
Remarks: Clear cut				I	

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	h needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) % 0-16 7.5 YR 3/3 98	Color (moist) % Type ¹ Lou Charcoal 2	c ² Texture Remarks
17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	rains. ² Location: PL=Pore Lining, M=Matr Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Depth (inches):		oil Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7	Water-Statied Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B	Water-Statied Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?	Water-Stated Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	Water-Stated Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (I         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Gaturation Present?       Yes         (includes capillary fringe)       Ves	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (I         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Gaturation Present?       Yes         (includes capillary fringe)       Ves	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

	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: 44.550	0203 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 ye	ear? Yes No X (If no, explain in Remarks.)
Are Vegetation Soil X or Hydrology significantly di	sturbed? Are "Normal Circumstances" present' Yes X No
Are Vegetation Soil or Hydrology naturally probl	ematic? (If needed, explain any answers in Remarks.)
Hydrophytic Vegetation Present?       Yes       X       No         Hydric Soil Present?       Yes       X       No         Wetland Hydrology Present?       Yes       X       No	I sampling point locations, transects, important features, etc.
Remarks:         Recorded precipitation in previous months was below norm           Soils are disturbed, however, assumed to be hydric base           Flowing water present	0
Remarks: Recorded precipitation in previous months was below nor Soils are disturbed, however, assumed to be hydric base	0

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

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Profile Description: (Describe to the	e depth neede	ed to document th	e indicator	or confi	rm the a	bsence of indic	ators.)
Depth Matrix		Redo	x Features				
(inches) Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8 10 YR 4/3	50	10 YR 3/6	2	С	М	Sand	
0-8 10 YR 2/2	58					Sand loam	
	<u> </u>					·	
	<u> </u>						
	·						
						·	
¹ Type: C=Concentration, D=Depletion	, RM=Reduce	ed Matrix, CS=Cove	ered or Coa	ted Sand	Grains.	² Locat	tion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to	o all LRRs, u	nless otherwise no	oted.)			Indicators for	Problematic Hydric Soils ³ :
Histosol (A1)	Sa	indy Redox (S5)				2 cm Muck	(A10)
Histic Epipedon (A2)	St	ripped Matrix (S6)				Red Parent	t Material (TF2)
Black Histic (A3)	Lo	amy Mucky Minera	l (F1) <b>(exce</b>	pt MLRA	. 1)	Very Shallo	ow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Lo	amy Gleyed Matrix	(F2)			X Other (Expl	lain in Remarks)
Depleted Below Dark Surface (A1	1)De	epleted Matrix (F3)					
Thick Dark Surface (A12)		edox Dark Surface (					ydrophytic vegetation and
Sandy Mucky Mineral (S1)		epleted Dark Surfac				-	drology must be present,
Sandy Gleyed Matrix (S4)	Re	edox Depressions (I	F8)			unless dist	urbed or problematic.
Restrictive Layer (if present):							
Туре:							
Depth (inches):				Hyd	ric Soil	Present? Ye	es <u>X</u> No
Remarks: Soils are disturbed, howe	ver, assumed	I to be hydric based	d on wetland	hydrolog	gy and h	ydrophytic plants	5.
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of one re	quired; check	all that apply)			_	Secondary	Indicators (2 or more required)
X Surface Water (A1)		Water-Stained Lea	aves (B9) ( <b>e</b>	except M	LRA	Water-S	Stained Leaves (B9) (MLRA 1, 2,
X High Water Table (A2)		1, 2, 4A, and 4B	3)			-	and 4B)
X Saturation (A3)		Salt Crust (B11)					e Patterns (B10)
Water Marks (B1)		Aquatic Invertebra					son Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)		Hydrogen Sulfide Oxidized Rhizosph		Living Po	note (C3)		on Visible on Aerial Imagery (C9) phic Position (D2)
Algal Mat or Crust (B4)		Presence of Redu	-	-		· · · · · · · · · · · · · · · · · · ·	Aquitard (D3)
Iron Deposits (B5)		Recent Iron Redu		,	C6)		eutral Test (D5)
Surface Soil Cracks (B6)		Stunted or Stresse	ed Plants (D	) ( <b>LRR</b> )	A)		Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Image	ry(B7)	Other (Explain in F	Remarks)			Frost-He	eave Hummocks (D7)
Sparsely Vegetated Concave Surf	ace (B8)						
Field Observations:	,	_					
Surface Water Present? Yes		Depth (Inc		I			
Water Table Present? Yes Xes		Depth (Inc Depth (Inc			Watla	nd Hydrology P	resent? Yes X No
(includes capillary fringe)				—	mena		
Describe Recorded Data (stream gaug	ge, monitoring	well, aerial photos	, previous ir	nspection	s), if ava	ailable:	
Remarks: Flowing water present							

Project/Site: Newpo	rt Municipal A	Airport		City/County:	City of Newpor	t		Sampling Date	e: 28-May	2019
Applicant/Owner:	City of Newp	ort				State:	OR	Sampling Poin	t: SP1	2
Investigator(s): Jeff	Barna, PWS	and Luke Johnson		Section, Tov	wnship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, etc.)	: hillslope		Local relief (co	oncave, convex	, none):	slope	SI	lope (%):	8
Subregion (LRR):	A2 - Willam	ette Valley	Lat: 44.550	)23	L	ong: <u>-12</u> 4	1.04692	5 Da	atum: NAD83	
Soil Map Unit Name	: 42E - Nels	scott loam, 12 to 50 p	percent slopes			NW	l classifi	cation: None		
Are climatic / hydrol	ogic condition	ns on the site typical	for this time of ye	ear? Yes	No X	(If no	, explair	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly dis	sturbed?	Are "Normal	Circumst	ances"	presentí Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed, e	xplain an	y answe	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	x	No No No	X X	Is the Sampled Area within a Wetland? Yes <u>No X</u>
Remarks: clear cut drainage, very steep	side wa	alls			
Recorded precipitation in prev	ious mo	onths	was be	elow norr	mal range

Clear cut

### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1	78 Cover	Opecies:	Status	Number of Dominant Species That Are OBL, FACW, or FAC:	2 (A)
23.				Total Number of Dominant	
4.					3 (B)
		= Total Cover			<u> </u>
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	20	1	FAC	That Are OBL, FACW, or FAC: 66	6.67 (A/B)
2.					
3.				Prevalence Index worksheet:	
4					bly by:
5				OBL species x 1=	
	20	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Blechnum spicant	15	1	FAC	FACU species x 4=	
2. Athyrium cyclosorum	2		FAC	UPL species x 5=	
3. Polystichum munitum	5	1	FACU	Column Totals: (A)	(B)
4					
5				Prevalence Index = B/A =	<u>0</u>
6				Hydrophytic Vegetation Indicators:	
7				1. Rapid Test For Hydrophytic Vege	etation
8				X 2- Dominance Test is >50%	
9.				3. Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Prov	vide supporting
11.				data in Remarks or on a separate	e sheet)
	22	= Total Cover		5 Wetland Non-Vascular Plants ¹	·
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetat	tion ¹ (Explain)
1				¹ Indicators of hydric soil and wetland h	ydrology must
2.				be present, unless disturbed or proble	matic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes x	No
				Present?	
Remarks: clear cut drainage, very steep side walls				•	

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Profile Description: (Describe to the depth r	needed to document the indicator or confirm the a	bsence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 7.5 YR 3/3 100		
		21
Type: C=Concentration, D=Depletion, RM=R	educed Matrix, CS=Covered or Coated Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRF	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Destriction Leven (if was sent).		
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soil	Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; of	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
	· · · · ·	
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	
		Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Geomorphic Position (D2) Shallow Aquitard (D3)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations:	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? YesN Water Table Present? YesN	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes M Water Table Present? Yes M Saturation Present? Yes M	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) ( <b>LRR A</b> ) Frost-Heave Hummocks (D7)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 Cl Wetlan	Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N Saturation Present? Yes N Cincludes capillary fringe) Describe Recorded Data (stream gauge, monit	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 Cl Wetlan	Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 Cl Wetlan	Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N Saturation Present? Yes N Cincludes capillary fringe) Describe Recorded Data (stream gauge, monit	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 Cl Wetlan	Geomorphic Position (D2)     Shallow Aquitard (D3)     FAC-Neutral Test (D5)     Raised Ant Mounds (D6) (LRR A)     Frost-Heave Hummocks (D7)

Project/Site: Newpo	ort Municipal Air	port		C	City/County:	City of Ne	wpor	t		Sampling D	ate:	28-May	/-2019	
Applicant/Owner:	City of Newpor	t						State:	OR	Sampling Po	oint:	SP	13	
Investigator(s): Jeff	Barna, PWS ar	nd Luke Johnson			Section, Tov	wnship, Ra	nge:	Sectio	n 29, T	ownship 11 S,	Rang	je 11 S		
Landform (hillslope	, terrace, etc.):	terrace		Lo	cal relief (co	oncave, co	nvex	, none): I	none		Slope	e (%):	3	
Subregion (LRR):	A2 - Willamet	e Valley	Lat:	44.54664	3		Lo	ong: -124	1.04772	27	Datur	m: NAD83	3	
Soil Map Unit Name	e: 42E - Nelsc	ott loam, 12 to 50 p	ercent slo	opes				NW	l classif	fication: None	;			
Are climatic / hydro	logic conditions	on the site typical	for this tin	ne of year	? Yes	No	Х	(If no	, explai	in in Remarks	.)			
Are Vegetation	Soil	or Hydrology	signific	antly distu	irbed?	Are "Nor	rmal (	Circumst	ances"	present' Yes	Х	No		
Are Vegetation	Soil	or Hydrology	natural	ly problem	natic?	(If neede	ed, ex	xplain an	y answ	ers in Remark	.s.)			
		A (( )) !(					12					4		

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

Hydrophytic Vegetation Present?	Yes	No X			
Hydric Soil Present?	Yes	No X	Is the Sampled Area		
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wetland?	Yes	No <u>X</u>
Remarks: Clear cut					

Recorded precipitation in previous months was below normal range Clear cut

### **VEGETATION – Use scientific names of plants.**

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

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Profile Description: (Describe to the dept	n needed to document the indicator or confir	m the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
0-16 7.5 YR 3/3 98	Charcoal 2	
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	1) Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	—
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydi	ric Soil Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except ML	.RA Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Ro	
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C	6) FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A	A) Raised Ant Mounds (D6) (LRR A)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Stunted or Stressed Plants (D1) (LRR A Other (Explain in Remarks)	A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
	Other (Explain in Remarks)	
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B	Other (Explain in Remarks) 8) No X Depth (Inches): NA	
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes	Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Frost-Heave Hummocks (D7)
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Other (Explain in Remarks) 8) No <u>X</u> Depth (Inches): <u>NA</u>	
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes <u>No X</u>
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16	Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes <u>No X</u>
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Other (Explain in Remarks) 8) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes <u>No X</u>

State:       OR       Sampling Point:       SP14         ship, Range:       Section 29, Township 11 S, Range 11 S         cave, convex, none): none       Slope (%):       3         Long:       -124.050715       Datum: NAD83         NWI classification:       None         No       X       (If no, explain in Remarks.)         Are "Normal Circumstances" present' Yes       X       No         (If needed, explain any answers in Remarks.)       No       X         oint locations, transects, important features, etc.       mpled Area         Wetland?       Yes       No       X         dicator       Dominance Test worksheet:       Number of Dominant Species       That Are OBL, FACW, or FAC:       2       (A)
cave, convex, none): none       Slope (%): 3         Long: -124.050715       Datum: NAD83         NWI classification: None       No         No       X       (If no, explain in Remarks.)         Are "Normal Circumstances" present' Yes       X       No         (If needed, explain any answers in Remarks.)       No       (If needed, explain any answers in Remarks.)         coint locations, transects, important features, etc.       Metland?       Yes       No         Metland?       Yes       No       X       No         dicator       Dominance Test worksheet:       Number of Dominant Species       Number of Dominant Species
Long: -124.050715       Datum: NAD83         NWI classification:       None         No X       (If no, explain in Remarks.)         Are "Normal Circumstances" present' Yes X       No         (If needed, explain any answers in Remarks.)       No         Dint locations, transects, important features, etc.         mpled Area         Wetland?       Yes         No       X         Idicator       Dominance Test worksheet:         Number of Dominant Species
NWI classification:       None         No X       (If no, explain in Remarks.)         Are "Normal Circumstances" present' Yes X       No         (If needed, explain any answers in Remarks.)       Noint locations, transects, important features, etc.         point locations, transects, important features, etc.         mpled Area         Wetland?       Yes         No       X         dicator       Dominance Test worksheet:         Number of Dominant Species
No       X       (If no, explain in Remarks.)         Are "Normal Circumstances" present' Yes       X       No         (If needed, explain any answers in Remarks.)       Doint locations, transects, important features, etc.         pint locations, transects, important features, etc.         mpled Area         Wetland?       Yes         No       X         dicator       Dominance Test worksheet:         Status       Number of Dominant Species
Are "Normal Circumstances" present' Yes X No         (If needed, explain any answers in Remarks.)         Dint locations, transects, important features, etc.         mpled Area         Wetland?       Yes No X         Idicator         Status         Number of Dominant Species
(If needed, explain any answers in Remarks.)         Dint locations, transects, important features, etc.         mpled Area         Wetland?       Yes         Metland?       Yes         No       X         Idicator       Dominance Test worksheet: Number of Dominant Species
bint locations, transects, important features, etc. mpled Area Wetland? Yes <u>No X</u> dicator Dominance Test worksheet: Number of Dominant Species
mpled Area Wetland? Yes <u>No X</u> dicator Status Number of Dominant Species
mpled Area Wetland? Yes <u>No X</u> dicator Status Number of Dominant Species
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dicator Status Number of Dominant Species
Status Number of Dominant Species
Status Number of Dominant Species
Status Number of Dominant Species
Status Number of Dominant Species
Status Number of Dominant Species
TAC I hat Are OBL, FACW, or FAC: 2 (A)
Total Number of Deminent
Total Number of Dominant Species Across All Strata: 4 (B)
Percent of Dominant Species
UPL That Are OBL, FACW, or FAC: 50.00 (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species x 1=
FACW species x 2=
FAC species 70 x 3= 210
FACU FACU species 50 x 4= 200
FACU UPL species x 5=
FAC         Column Totals:         120         (A)         410         (B)
Prevalence Index = B/A = <u>3.42</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)
E Matland Nam Var Di
5-Wetland Non-Vascular Plants ¹
6- Problematic Hydrophytic Vegetation ¹ (Explain)
6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic
6- Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
F

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Depth       Matrix         (inches)       Color (moist)       %         0-4       7.5 YR 33/3       4-16         4-16       Fill	h needed to document the indicator or co Redox Features Color (moist) % Type 		Texture       Silt loam	rs.) Remarks
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all Li Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1)			Indicators for Pro 2 cm Muck (A1 Red Parent Ma Very Shallow D Other (Explain Indicators of hydro	terial (TF2) park Surface (TF12)
Sandy Gleyed Matrix (S4)  Restrictive Layer (if present):  Type: Depth (inches):  Remarks: Refusal at 4 inches. On edge of		lydric Soil		d or problematic.
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LF Other (Explain in Remarks)	Roots (C3)	Water-Stain 4A, and Drainage Pa Dry-Season Saturation V Geomorphic Shallow Aqu FAC-Neutra Raised Ant	vatterns (B10) Water Table (C2) /isible on Aerial Imagery (C9) Position (D2) uitard (D3)
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)       Describe Recorded Data (stream gauge, mo	No       X       Depth (Inches):       NA         No       X       Depth (Inches):       >16         No       X       Depth (Inches):       >16         nitoring well, aerial photos, previous inspect		n <b>d Hydrology Prese</b> ilable:	ent? Yes <u>No X</u>

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/County: City of Newport			Sampling Date	e: 28-M	ay-2019	
Applicant/Owner:	City of Nev	wport				State:	OR	Sampling Poir	nt: S	P15
Investigator(s): Jeff	Barna, PW	S and Luke Johnson	Section, Tov	vnship, Range	: Sectio	n 29, T	ownship 11 S, R	Range 11 S		
Landform (hillslope,	terrace, et	c.): terrace		Local relief (co	oncave, conve	x, none):	convex	S	Slope (%):	4
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.557	7346		_ong: <u>-12</u> 4	1.05092	5 C	Datum: NAD	83
Soil Map Unit Name	: 18G - Fe	endall-Templeton silt	loams, 35 to 60	percent slopes		NW	l classif	ication: None		
Are climatic / hydrole	ogic conditi	ions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norma	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain an	iy answ	ers in Remarks.	)	

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	X X	Is the Sampled Area			
Wetland Hydrology Present? Remarks: Open and mossy forest flo	Yes or	No	X	within a Wetland?	Yes	No	<u> </u>

Recorded precipitation in previous months was below normal range

### **VEGETATION – Use scientific names of plants.**

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

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Sampling Point: SP15

Depth (inches)	cription: (Describe to							
		the depth ne	eded to document	the indicator	or con	firm the	absence of in	idicators.)
(inchoc)	Matrix		Redo	ox Features				
(Inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
								Same as SP14
						<u> </u>		
	Concentration, D=Deple				ted San	d Grains		ocation: PL=Pore Lining, M=Matr
Hydric Soil II	ndicators: (Applicable	e to all LRRs	, unless otherwise	noted.)			Indicators fo	r Problematic Hydric Soils ³ :
Histosol	(A1)	S	andy Redox (S5)				2 cm Muc	k (A10)
Histic Ep	pipedon (A2)	s	tripped Matrix (S6)				Red Pare	nt Material (TF2)
Black Hi	istic (A3)	L	oamy Mucky Minera	al (F1) <b>(excep</b>		1)	Very Shal	low Dark Surface (TF12)
Hvdroae	en Sulfide (A4)		oamy Gleyed Matrix				Other (Ex	plain in Remarks)
	d Below Dark Surface (A		epleted Matrix (F3)	. ,				. ,
·	ark Surface (A12)	/	edox Dark Surface	(F6)			3Indicators of	hydrophytic vegetation and
	Aucky Mineral (S1)		epleted Dark Surfac	. ,				ydrology must be present,
·	Gleyed Matrix (S4)		edox Depressions (					sturbed or problematic.
	(-)			- /				
Restrictive L	.ayer (if present):							
Type:								
Depth (ir	nches):				Hydi	ric Soil F	Present?	Yes No X
Remarks:								
HYDROLO	GY							
Wetland Hyd	Irology Indicators:							
-	Irology Indicators: icators (minimum of one	e required; ch	eck all that apply)				Secondar	y Indicators (2 or more required)
Primary Indi	icators (minimum of one	e required; ch		aves (B9) (ex	cent MI	_ RA		y Indicators (2 or more required)
Primary Indi	icators (minimum of one Water (A1)	e required; ch	Water-Stained Le	. , .	cept ML	_ .RA	Water-	Stained Leaves (B9) (MLRA 1, 2,
Primary Indi Surface	icators (minimum of one Water (A1) ater Table (A2)	e required; ch	Water-Stained Le 1, 2, 4A, and 4E	. , .	cept ML	- .RA	Water- 4A,	Stained Leaves (B9) (MLRA 1, 2, and 4B)
Primary Indi Surface High Wa Saturatio	icators (minimum of one Water (A1) ater Table (A2) on (A3)	e required; ch 	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11)	3)	cept ML	- RA	Water- 4A, Draina	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10)
Primary Indi Surface High Wa Saturatio Water M	icators (minimum of one Water (A1) ater Table (A2) on (A3) farks (B1)	e required; ch 	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	<b>3)</b> ates (B13)	cept ML	_ .RA	Water- 4A, Draina Dry-Se	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2)
Primary India Surface High Wa Saturatio Water M Sedimer	icators (minimum of one Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)	e required; ch 	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	<b>3)</b> ates (B13) Odor (C1)	·		Water- 4A, Draina Dry-Se Satura	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	e required; ch 	Water-Stained Le 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra	<b>3)</b> ates (B13) Odor (C1) heres along L	·		Water- 4A, Draina Dry-Se Satura Geom	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	e required; ch 	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	<b>3)</b> Odor (C1) heres along L uced Iron (C4)	ving Ro	ots (C3)	Water- 4A, Draina Dry-Se Satura Geomo Shallou	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	e required; ch 	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi	ates (B13) Odor (C1) heres along L iced Iron (C4) ction in Tilled	ving Ro Soils (C	ots (C3) 6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	-	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	ates (B13) Odor (C1) heres along L uced Iron (C4) ction in Tilled ed Plants (D1	ving Ro Soils (C	ots (C3) 6)	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	   agery(B7)	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) heres along L uced Iron (C4) ction in Tilled ed Plants (D1	ving Ro Soils (C	ots (C3) 6)	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S	   agery(B7)	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) heres along L uced Iron (C4) ction in Tilled ed Plants (D1	ving Ro Soils (C	ots (C3) 6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S rvations:	agery(B7) Surface (B8)	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	<b>3)</b> Odor (C1) heres along L uced Iron (C4) ction in Tilled ed Plants (D1 Remarks)	ving Ro Soils (C	ots (C3) 6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Wat	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S rvations: ter Present? Yes	agery(B7) Surface (B8)	Water-Stained Le <b>1, 2, 4A, and 4E</b> Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in X Depth (Inc	ates (B13) Odor (C1) heres along L uced Iron (C4) ction in Tilled ed Plants (D1 Remarks) ches): <u>NA</u>	ving Ro Soils (C	ots (C3) 6)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) (MLRA 1, 2, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Wat Water Table	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) Int Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S rvations: ter Present? Yes	agery(B7) Surface (B8) No	Water-Stained Le         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizospi         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (Inc         X       Depth (Inc	ates (B13) Odor (C1) heres along L uced Iron (C4) ction in Tilled ed Plants (D1 Remarks) ches): <u>NA</u> ches): <u>&gt;16</u>	ving Ro Soils (C	ots (C3) 6) A)	Water- 4A, Draina Dry-Se Satura Geoma Shalloo FAC-N Raiseo Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Wate Water Table Saturation P	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S rvations: ter Present? Yes Present? Yes Present? Yes	agery(B7) Surface (B8)	Water-Stained Le         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizospi         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (Inc         X       Depth (Inc	ates (B13) Odor (C1) heres along L uced Iron (C4) ction in Tilled ed Plants (D1 Remarks) ches): <u>NA</u> ches): <u>&gt;16</u>	ving Ro Soils (C	ots (C3) 6) A)	Water- 4A, Draina Dry-Se Satura Geomo Shallov FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Wat Water Table Saturation P (includes ca	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S rvations: ter Present? Yes e Present? Yes present? Yes present? Yes pipillary fringe)	agery(B7) Surface (B8) No No	Water-Stained Le         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizospi         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (Inc         X       Depth (Inc         X       Depth (Inc	ates (B13) Odor (C1) heres along L iced Iron (C4) ction in Tilled ed Plants (D1 Remarks) ches): <u>NA</u> ches): <u>&gt;16</u> ches): <u>&gt;16</u>	ving Ro Soils (C ) (LRR 4	ots (C3) 6) A) Wetlan	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo Frost-H	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Wate Vater Table Saturation P (includes ca	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S rvations: ter Present? Yes Present? Yes Present? Yes	agery(B7) Surface (B8) No No	Water-Stained Le         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizospi         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (Inc         X       Depth (Inc         X       Depth (Inc	ates (B13) Odor (C1) heres along L iced Iron (C4) ction in Tilled ed Plants (D1 Remarks) ches): <u>NA</u> ches): <u>&gt;16</u> ches): <u>&gt;16</u>	ving Ro Soils (C ) (LRR 4	ots (C3) 6) A) Wetlan	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo Frost-H	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Primary Indi Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Obser Surface Wate Vater Table Saturation P (includes ca	icators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial Ima y Vegetated Concave S rvations: ter Present? Yes e Present? Yes present? Yes present? Yes pipillary fringe)	agery(B7) Surface (B8) No No	Water-Stained Le         1, 2, 4A, and 4E         Salt Crust (B11)         Aquatic Invertebra         Hydrogen Sulfide         Oxidized Rhizospi         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (Inc         X       Depth (Inc         X       Depth (Inc	ates (B13) Odor (C1) heres along L iced Iron (C4) ction in Tilled ed Plants (D1 Remarks) ches): <u>NA</u> ches): <u>&gt;16</u> ches): <u>&gt;16</u>	ving Ro Soils (C ) (LRR 4	ots (C3) 6) A) Wetlan	Water- 4A, Draina Dry-Se Satura Geomo Shalloo FAC-N Raiseo Frost-H	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)

Project/Site: Newpo	roject/Site: Newport Municipal Airport				City/County: City of Newport				e: 28-Ma	y-2019
Applicant/Owner:	City of Net	wport				State:	OR	Sampling Poin	it: SF	P16
Investigator(s): Jeff	Barna, PW	'S and Luke Johnson	Section,	Township, Rang	e: Sectio	on 29, To	ownship 11 S, R	ange 11 S		
Landform (hillslope,	terrace, et	c.): hillslope		Local relief	(concave, conv	ex, none):	none	S	lope (%):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.5	555547		Long: -124	4.05649	5 D	atum: NAD8	3
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes	S		NW	l classif	ication: None		
Are climatic / hydrole	ogic condit	ions on the site typic	al for this time	of year? Y	es No	X (If no	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	oblematic?	(If needed	, explain ar	ny answ	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present?	Yes	No	Х	
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area
Wetland Hydrology Present?	Yes	No	Х	within a Wetland? Yes <u>No X</u>
Remarks:				•

Recorded precipitation in previous months was below normal range

### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Picea sitchensis	35	1	FAC	That Are OBL, FACW, or FAC: 1 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 2 (B)
	35	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	80	1	FACU	That Are OBL, FACW, or FAC: 50.00 (A/B)
2.				
3				Prevalence Index worksheet:
4		. <u> </u>		Total % Cover of: Multiply by:
5				OBL species x 1=
	80	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 35 x 3= 105
1				FACU species 80 x 4= 320
2.				UPL species x 5=
3				Column Totals: 115 (A) 425 (B)
4.				
5.				Prevalence Index = $B/A = 3.70$
6.				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
		= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 100				Vegetation Yes No X
				Present?
Remarks:				1

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Sampling Point: SP16

Profile Description: (Describe to the dept	h needed to document the indicator or cor	firm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks
0-16 10 YR 2/2		Silt loam
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sa	nd Grains. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA	·
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		Inia Calil Present 2 Vac Na V
Depth (inches):		Iric Soil Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	: check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except M	
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
		Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	
Drift Deposits (B3)	Oxidized Rhizospheres along Living Ro	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C	,
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR	
Inundation Visible on Aerial Imagery(B7		Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (E	(8)	
Field Observations:		
Surface Water Present? Yes	No X Depth (Inches): NA	
Water Table Present? Yes	No X Depth (Inches): >16	
Saturation Present? Yes	No X Depth (Inches): >16	Wetland Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspecti	ons), if available
Demontro		
Remarks:		
Remarks:		

Project/Site: Newpo	roject/Site: Newport Municipal Airport				ity/County: City of Newport				Sampling Date	e: 28-Ma	ay-2019	
Applicant/Owner:	City of New	port					State:	OR	Sampling Poir	nt: SI	P17	
Investigator(s): Jeff	Section,	, Townshi	p, Range	Sectio	n 29, To	ownship 11 S, R	ange 11 S					
Landform (hillslope,	terrace, etc	.): terrrace		Local relie	ef (concav	/e, conve	k, none):	none	S	lope (%):	3	
Subregion (LRR):	A2 - Willan	nette Valley	Lat: 4	4.567856		L	ong: -124	1.05496	3 D	atum: NAD8	33	
Soil Map Unit Name	: 42C - Ne	lscott loam, 3 to 12 p	percent slope	s			NW	l classif	ication: None			
Are climatic / hydrol	ogic conditio	ons on the site typica	I for this time	e of year?	Yes	No X	(If no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significan	tly disturbed?	Ar	e "Normal	Circumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally	problematic?	(If	needed, e	explain an	y answe	ers in Remarks.	)		

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

Hydrophytic Vegetation Present?	Yes <u>x</u>		No		
Hydric Soil Present?	Yes		No	Х	Is the Sampled Area
Wetland Hydrology Present?	Yes	_	No	Х	within a Wetland? Yes <u>No X</u>
Remarks:					

Recorded precipitation in previous months was below normal range

### **VEGETATION – Use scientific names of plants.**

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

US Army Corps of Engineers

(inches)       Color (moist)       %       Color (moist)       %       Type       Loc ² Texture       Remarks         0-16       7.5 YR 2.5/2	Depth Matrix	Redox Features	. 2		
Import       Contain       PL=Pore Lining. M=Matrix         Import       Sandy Redux (S5)       Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Vollematic Hydric Soils':         Histics Eppedon (A2)       Sandy Redux (S5)       2 cm Muck (A10)         Black Histic (A3)       Loarny Mucky Mineral (F1) (except MLRA 1)       Other (Erp8)         Hydrige Soilf de(IA4)       Loarny Mucky Mineral (F1)       Other (Erp8)         Thick Dark Surface (A11)       Depleted Matrix (F3)		% Color (moist) % Type*			Remarks
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators (r Problematic Hydric Soils:         Histic Epipedon (A2)       Sandy Redox (S5)       2 cm Muck (A10)         Histic Epipedon (A2)       Stripped Matrix (S6)       2 cm Muck (A10)         Black Histic (A3)       Leamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       multic Soil Present?       Yes       No       X         Surface Vature (A1)       Gelyet Matrix (S1)       Back Hist apply)       Secondary Indicators (2 or more required)       Water Stained Leaves (B9) (except MLRA 1)       Water Stained Leaves (B9) (except MLRA 1)       4A, and 4B)         Surface Vature (A1)       Salt Crust (B11)       Salt Crust (B11)       Dy-season Water Table (C2)       Saturation (A3)       Saturation (A3)       Saturation (C4)       Dy-season Water Table (C2)       Saturation (S1)       Dy-season Mater Table (C2)       Saturation Visible on Aerial Imagery (C         Secondary Indicators (B1)       Presence of Reduced Iron (C4)       Dy-season Mater Table (C2)       Saturation Visible on Aerial Imagery (C					
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histic Epipedio (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histic Epipedio (A2)       Stripped Matrix (S6)       2 cm Muck (A10)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Uvery Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F7)       unless disturbed or problematic.         Retrictive Layer (if present):       Type:       No       X         Type:       Depleted Matrix (S4)       Redox Dark Surface (F8)       Secondary Indicators (2 or more required)         Water Marks (B1)					
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histic Soal (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histic Explosition (A2)       Stripped Matrix (S6)       2 cm Muck (A10)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Uvery Shallow Dark Surface (A11)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Retrictive Layer (if present):       Type:       No       X         Type:       Depleted Matrix (S4)       Redox Dark Surface (F8)       Secondary Indicators (2 or more required)         YDROLOGY       Water A11       Water Stained Leaves (B9) (except MLRA 1)       Mydric Soil Present?       Yes       No       X         Surface Water (A1)       Sand Crust (B11)       Aquatic Invertebrates (B13)       Drainage Patterns (B10)       Dry-Season Water Table (C2)       Saturation Visible on Aerial Imagery (C         Secondary Indicators (B2)       Hydrogen Suffide Odor (C1)       Dry-Season Water Table (C2)       Saturation Visible on Aerial Imagery (C       S			·		
tydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histic Epipedio (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histic Epipedio (A2)       Stripped Matrix (S6)       2 cm Muck (A10)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Uvery Shallow Dark Surface (TF12)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Redox Dark Surface (F7)       unless disturbed or problematic.         Retrictive Layer (if present):       Type:       No       X         Type:       Depleted Matrix (S4)       Redox Dark Surface (F8)       Secondary Indicators (2 or more required)         Water Marks (B1)					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators (r Problematic Hydric Soils:         Histic Epipedon (A2)       Sandy Redox (S5)       2 cm Muck (A10)         Histic Epipedon (A2)       Stripped Matrix (S6)       2 cm Muck (A10)         Black Histic (A3)       Leamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       multic Soil Present?       Yes       No       X         Surface Vature (A1)       Gelyet Matrix (S1)       Back Hist apply)       Secondary Indicators (2 or more required)       Water Stained Leaves (B9) (except MLRA 1)       Water Stained Leaves (B9) (except MLRA 1)       4A, and 4B)         Surface Vature (A1)       Salt Crust (B11)       Salt Crust (B11)       Dy-season Water Table (C2)       Saturation (A3)       Saturation (A3)       Saturation (C4)       Dy-season Water Table (C2)       Saturation (S1)       Dy-season Mater Table (C2)       Saturation Visible on Aerial Imagery (C         Secondary Indicators (B1)       Presence of Reduced Iron (C4)       Dy-season Mater Table (C2)       Saturation Visible on Aerial Imagery (C					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators (r Problematic Hydric Soils:         Histicsol (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histic Epipedon (A2)       Stripped Matrix (S6)       2 cm Muck (A10)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain in Remarks)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type:       Depleted Matrix (S4)       Redox Depressions (F8)         Water Atrix (S4)       Redox Copressions (F8)       unless disturbed or problematic.         Water Marks (B1)       Sand Crust (B1)       Water-Stained Leaves (B9) (except MLRA 1)         Sufface Water (A1)       Sand Crust (B1)       Depleted Dark Sufface (A12)         Sufface Water (A1)       Sand Crust (B1)       Sand Crust (B1)         Sufface Water (A1)       Aquatic Invertebrates (B3)       Depleted Dark Sufface (A12)         Water Marks (B1)       Aquatic Invertebrates (B13)       Depleted Dark Sufface (A12)         Sediment Deposits (B2)       Hydrogen Sufface Odor (C1)       Dry-Season Anerial Imagery (C Geomorphoe Sufface (B3)					
Histosol (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histic Epipedon (A2)       Stripped Matrix (S6)       Red Parent Material (TF2)         Black Histic (A3)       Loamy Gleyed Matrix (F3)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Trype:       Hydric Soil Present?       Yes       No       X         Primary Indicators:       Primary Indicators (innimum of one required; check all that apply)       Secondary Indicators (2 or more required)       Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B)         Saturation (A3)       Satur (E11)       Aquatic Invertebrates (B13)       Saturation Visible on Aerial Imagery (C1)         Sufface Water (A1)       Aquatic Invertebrates (B13)       Sturtued or Stressed Plants (D1)       Saturation Visible on Aerial Imagery (C1)         Orth Deposits (B2)       Oxidized Rhizospheres along Living Roots (C5)       Saturation Visible on Aerial Imagery (C1)         Surface Water Resent?       Yes       No       X         Spersely Vegetated Concave Surface (B8)       Stunde or Stressed Plants (D1) (LRR		,	d Grains.	² Loca	ation: PL=Pore Lining, M=Matrix
Histic Epipedon (A2)       Stripped Matrix (S6)       Red Parent Material (TF2)         Black Histic (A3)       Loamy Wucky Mineral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       "Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       "Indicators of hydrophylic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type:       Depleted Matrix (S4)       Redox Depressions (F8)         YDROLOGY       Wetland Hydrology Indicators:       Hydric Soil Present?       Yes       No       X         Saturation (A3)       Sati Crust (B11)       Sati Crust (B11)       Sati Crust (B13)       Drainage Patterns (B10)       Drainage	Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwise noted.)	I	Indicators for	Problematic Hydric Soils ³ :
Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil Present? Yes       No       X         Primary Indicators (minimum of one required; check all that apply)       Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2       4, and 4B)         Saturation (A3)       Sat Crust (B11)       Drainage Patterns (B10)       Drainage Patterns (B10)       Dry-Season Water Table (C2)         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Shallow Aquitard (D3)         Sturface Vater Ks (B1)       Aquatic Invertebrates (B13)       Frost-Heave Hummocks (D7)         Sturface S01 Cracks (B6)       Sturation Visible on Aerial Imagery (C         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Shallow Aquitard (D3)	Histosol (A1)	Sandy Redox (S5)	_	2 cm Muck	(A10)
Hydrogen Sulfide (A4)       Loamy Gleved Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil Present?       Yes       No       X         Remarks:       Primary Indicators (inimum of one required; check all that apply)       Secondary Indicators (2 or more required)       Secondary Indicators (2 or more required)         Surface Water (A1)	Histic Epipedon (A2)	Stripped Matrix (S6)	_	Red Parent	t Material (TF2)
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:	Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLR	A 1) _	Very Shallo	ow Dark Surface (TF12)
Thick Dark Surface (A12)       Redox Dark Surface (F6)       *Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic.         Sandy Ukcky Mineral (S1)       Depleted Dark Surface (F7)       unless disturbed or problematic.         Restrictive Layer (if present):       Type:			-	Other (Exp	lain in Remarks)
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       unless disturbed or problematic.         Remarks:       Hydric Soil Present? Yes No _X         Remarks:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         MUDROLOGY       Water Cable (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Satic Crust (B1)       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       Drainage Patterns (B10)         Saturation (A3)       Satic Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Drainage Patterns (B10)         Secondary Indicators (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Sturdace Water (AF)       Saturation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Surface Soil Cracks (B6)       Sturtued or Stressed Plains (D1) (LRR A)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       No X       Depth (Inches): <u>&gt; 16</u> Wetland Hydrology Present? YesNo X	·				
Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       unless disturbed or problematic.         Restrictive Layer (if present):       Type:			3		
Restrictive Layer (if present):       Type:		<b>—</b> · · · ·		-	
Type:       Hydric Soil Present?       Yes       No       X         Remarks:       Image: the second and the secon					
Depth (inches):       Hydric Soil Present?       Yes       No       X         Remarks:         Hydric Soil Present?       Yes       No       X         Remarks:         Hydric Soil Present?       Yes       No       X         Hydric Soil Present?       Yes       No       X         Primary Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Synface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       Water-Stained Leaves (B9) (MLRA 1, 2         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         System Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Jrift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave	Restrictive Layer (if present):				
Remarks: <b>HYDROLOGY</b> Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Secondary Indicators (2 or more required)         Mydrology Indicators:       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       Water-Stained Leaves (B9) (MLRA 1, 2         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Malal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Solis (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       No       X       Depth (Inches): <u>&gt; 16</u> Wetland Hydrology Present? Yes       No       X         No       X <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
AYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertences (B13)         Drift Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Geomorphic Position (D2)       Shallow Aquitard (D3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Sturted or Stressed Plants (D1) (LRR A)         Surface Soil Cracks (B6)       Sturde or Stressed Plants (D1) (LRR A)         Iroundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Pepth (Inches): <u>16</u> Field Observations:       No X       Depth (Inches): <u>16</u> Saturation Present?       Yes       No X         Depth (Inches): <u>16</u> Wetland Hydrology Present? Yes No X       Depth (Inches): <u>16</u> Saturation Present?       Yes       No X       Depth (Inches): <u>16</u> Baturation Present?       Yes	Depth (inches):	Ну	dric Soil P	resent? Y	es <u>No X</u>
Wetland Hydrology Indicators:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)	Remarks:				
Wetland Hydrology Indicators:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)					
Wetland Hydrology Indicators:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)					
Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)					
Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Drainage Patterns (B10)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Water Present?       Yes       No       X         Synface Water Present?       Yes       No       X         Water Table Present?       Yes       No       X         No       X       Depth (Inches):       >16         Water Table Present?       Yes       No       X         No       X       Depth (Inches):       >16         Water Table Present?       Yes       No       X         Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No	IYDROLOGY				
High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       No       Depth (Inches):       NA         Field Observations:       No       Depth (Inches):       >16       Wetland Hydrology Present? Yes       No       No         Saturation Present?       Yes       No       Depth (Inches):       >16       Wetland Hydrology Present? Yes       No       X         Depth Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Staulable:       Staulable	Wetland Hydrology Indicators:				
Saturation (A3)       Satt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Wetland Hydrology Present?       Yes       No       X       Depth (Inches):       >16         Wetland Hydrology Present?       Yes       No       X       Depth (Inches):       >16         Cincludes capillary fringe)	Wetland Hydrology Indicators:	quired; check all that apply)		Secondary	Indicators (2 or more required)
Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       No       X       Depth (Inches):       >16         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Mater Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Cincludes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Matia	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1)	Water-Stained Leaves (B9) (except N		Water-S	Stained Leaves (B9) (MLRA 1, 2
Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Yes       No       X	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B)	ILRA	Water-S 4A, a	Stained Leaves (B9) (MLRA 1, 2 and 4B)
Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Other (Inches): NA       No       X         Water Table Present?       Yes       No       X       Depth (Inches): >16         Saturation Present?       Yes       No       X       Depth (Inches): >16       Wetland Hydrology Present? Yes       No       X         Includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Staulable:	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11)	ILRA	Water-S 4A, a Drainag	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and 4B) e Patterns (B10)
Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Other (Inches): NA       No       X         Surface Water Present?       Yes       No       X       Depth (Inches): >16         Saturation Present?       Yes       No       X       Depth (Inches): >16         Metland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Wetland Hydrology Present?	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	 ILRA	Water-S 4A, a Drainag	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2)
Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Stunted or Stressed Plants (D1) (LRR A)       Frost-Heave Hummocks (D7)         Field Observations:       Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Stauralable:       Stauralable       Stauralable	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Water-S 4A, a Drainag Dry-Sea	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (CS
Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Yes       No       X	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4)	oots (C3)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (CS rphic Position (D2) Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         No       X       Depth (Inches):         Na       No         Water Table Present?       Yes         No       X       Depth (Inches):         Saturation Present?       Yes         No       X       Depth (Inches):         Saturation Present?       Yes         No       X         (includes capillary fringe)       Depth (Inches):         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (	oots (C3) C6)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C9 rphic Position (D2) Aquitard (D3) eutral Test (D5)
Field Observations:         Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Wetland Hydrology Present?       Yes       No       X	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR	oots (C3) C6)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         (includes capillary fringe)       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Vetland Hydrology Present?       Yes       No       X	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR y(B7) Other (Explain in Remarks)	oots (C3) C6)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         (includes capillary fringe)       Vestand Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Vestand Hydrology Present?       Yes       No       X	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR y(B7) Other (Explain in Remarks)	oots (C3) C6)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
Saturation Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)	Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imager Sparsely Vegetated Concave Surfa Field Observations:	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR y(B7) Other (Explain in Remarks)	oots (C3) C6)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C3 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hydrology Indicators:         Primary Indicators (minimum of one red         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfate         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR y(B7) Other (Explain in Remarks) No X Depth (Inches): NA	oots (C3) C6)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C4 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
	Wetland Hydrology Indicators:         Primary Indicators (minimum of one red         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfate         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR y(B7) Other (Explain in Remarks) ce (B8) No X Depth (Inches): NA No X Depth (Inches): >16	oots (C3) C6) A)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised Frost-He	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B</b> ) e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C4 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) eave Hummocks (D7)
	Wetland Hydrology Indicators:         Primary Indicators (minimum of one red         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surfate         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR y(B7) Other (Explain in Remarks) ce (B8) No X Depth (Inches): NA No X Depth (Inches): >16	oots (C3) C6) A)	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised Frost-He	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B</b> ) e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C4 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) eave Hummocks (D7)
	Wetland Hydrology Indicators:         Primary Indicators (minimum of one red         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imager         Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Gaturation Present?       Yes         (includes capillary fringe)       Ves	Water-Stained Leaves (B9) (except N 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils ( Stunted or Stressed Plants (D1) (LRR y(B7) Other (Explain in Remarks) ce (B8) No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16	oots (C3) C6) A) Wetlanc	Water-S 4A, a Drainag Dry-Sea Saturati Geomol Shallow FAC-Ne Raised Frost-He	Stained Leaves (B9) ( <b>MLRA 1, 2</b> and <b>4B)</b> e Patterns (B10) ason Water Table (C2) on Visible on Aerial Imagery (C4 phic Position (D2) Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) eave Hummocks (D7)

Project/Site: Newpo	rt Municipa	al Airport		City/Co	ounty:	City of New	/port			Sampling Da	te:	28-May	-2019
Applicant/Owner:	City of Ne	ewport					S	state:	OR	Sampling Po	int:	SP	18
Investigator(s): Jeff	Barna, PW	/S and Luke Johnson		Sectio	on, Tow	nship, Ran	ge:	Section	n 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope,	terrace, e	tc.): terrrace		Local re	lief (co	ncave, con	vex, n	ione): r	none		Slope	(%):	3
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.570218			Lon	g: -124	.05605	3	Datum	: NAD83	3
Soil Map Unit Name	: 42E - N	lelscott loam, 12 to 50	) percent slop	pes				NWI	classif	ication: None			
Are climatic / hydrole	ogic condi	tions on the site typic	al for this time	e of year?	Yes	No	Х	(If no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	•	Are "Norn	nal Ci	rcumst	ances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally p	oroblematic?		(If needed	d, exp	lain an	y answ	ers in Remarks	s.)	_	

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

	ydrology Present? Yes No X within a Wetland? Yes No X		Yes <u>x</u> No Yes No	Is the Sampled Area		
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Recorded precipitation in previous months was below normal range

### **VEGETATION – Use scientific names of plants.**

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

US Army Corps of Engineers

Sampling Point: SP18

Profile Description: (Describe to the dep	th needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	c ² Texture Remarks
0-16 10 YR 3/3		Silt loam
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sand G	rains. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Listeral (A1)	Condu Doday (CE)	2  are  Muck (A10)
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	—
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
		uniess disturbed of problematic.
Restrictive Layer (if present):		
Type: Depth (inches):	Hydric S	Soil Present? Yes No X
Remarks:		
Remarks:		
Remarks:		
Remarks: HYDROLOGY		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:	d: check all that apply)	Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (I         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (I         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (I         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Gaturation Present?       Yes         (includes capillary fringe)       Describe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpo	Project/Site: Newport Municipal Airport			City/Coun	City/County: City of Newport			Sampling Date	e: 28-M	ay-2019
Applicant/Owner:	City of New	wport				State:	OR	Sampling Poir	nt: S	SP19
Investigator(s): Jeff	Barna, PW	S and Luke Johnson	l	Section,	Township, Rang	e: Sectio	on 29, T	ownship 11 S, R	Range 11 S	
Landform (hillslope,	terrace, et	c.): terrace		Local relief	(concave, conv	ex, none):	none	S	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.5	567205		Long: -12	4.05758	8 C	Datum: NAD	83
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes	s		NW	I classi	ication: None		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time	of year? Ye	es No	X (If n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	/ disturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	oblematic?	(If needed	, explain a	ny answ	ers in Remarks.	)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks:							

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Pinus contorta	10	1	FAC	That Are OBL, FACW, or FAC: 4	(A)
2 Alnus rubra	10	1	FAC		(//)
3. Picea sitchensis	15	1	FAC	Total Number of Dominant	
4.		'	17.0	Species Across All Strata: 7	(B)
	35	= Total Cover			(=)
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	25	1	FACU	That Are OBL, FACW, or FAC: 57.1	4 (A/B)
2. Cytisus scoparius	10		NL		
3. Vaccinium parvifolium	30	1	FACU	Prevalence Index worksheet:	
4				Total % Cover of: Multiply	v by:
5.				OBL species x 1=	
	65	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 45 x 3= 1	35
1. Pteridium aquilinum	15	1	FACU	FACU species 70 x 4= 2	80
2. Holcus lanatus	10	1	FAC	UPL species 10 x 5= 5	50
3.				Column Totals: 125 (A) 4	65 (B)
4.					
5.				Prevalence Index = $B/A = 3.72$	2
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegeta	ation
8				X 2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provid	de supporting
11.				data in Remarks or on a separate	sheet)
	25	= Total Cover		5-Wetland Non-Vascular Plants ¹	,
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetatio	n ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydric soil and wetland hydric soil and wetland hydric soil and wetland hydric solution and hydric solut	drology must
2.				be present, unless disturbed or problem	atic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100					No X
<u></u>				Present?	
Remarks:				-	

US Army Corps of Engineers

Sampling Point: SP19

Profile Description: (Describe to the dept		
· · · · · · · · · · · · · · · · · · ·	h needed to document the indicator or confirm the	he absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	- Texture Remarks
0-16 10 YR 3/3		Silt loam
<u> </u>		
		·
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Gra	ins. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric So	il Present? Yes No X
Remarks:		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
	d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required        Surface Water (A1)        High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) 3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?         Yes         Water Table Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?         Yes         Water Table Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         Gaturation Present?       Yes         Includes capillary fringe)       Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         Gaturation Present?       Yes         Includes capillary fringe)       Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         88)         No       X         Depth (Inches):       >16         Weth	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B7)         Surface Water Present?         Yes         Water Table Present?         Yes         Includes capillary fringe)         Describe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         88)         No       X         Depth (Inches):       >16         Weth	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpo	Project/Site: Newport Municipal Airport			City/Co	City/County: City of Newport			Sampling Da	te: 28	3-May-201	9	
Applicant/Owner:	City of New	wport			-		State:	OR	Sampling Po	int:	SP20	
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section	n, Tow	nship, Rang	ge: Sect	on 29, T	ownship 11 S,	Range 11	IS	
Landform (hillslope,	terrace, et	c.): hillslope		Local rel	ief (cor	ncave, conv	ex, none)	convex		Slope (%	): 4	
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.	.56491			Long: -1:	24.05496	6	Datum: N	IAD83	
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50	0 percent slop	bes			N\	VI classi	fication: Near	R4SBC		
Are climatic / hydrole	ogic condit	ions on the site typic	al for this time	e of year?	Yes	No	X (If r	io, expla	in in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantl	y disturbed?		Are "Norm	al Circum	stances"	present' Yes	X N	lo	
Are Vegetation	Soil	or Hydrology	naturally p	roblematic?		(If needed	, explain a	iny answ	ers in Remarks	s.)		_

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	X	 No
<u> </u>			_				
Remarks:							

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	5	<u> </u>	FACU	That Are OBL, FACW, or FAC: 3	(A)
2. Picea sitchensis	60	1	FAC		_ ( )
3.				Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
	65	= Total Cover			_
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	10	1	FACU	That Are OBL, FACW, or FAC: 75.00	(A/B)
2					
3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by	:
5				OBL species 20 x 1= 20	
	10	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 90 x 3= 270	
1. Blechnum spicant	30	1	FAC	FACU species <u>15</u> x 4= <u>60</u>	_
2. Lysichiton americanus	20	1	OBL	UPL species x 5=	
3				Column Totals: <u>125</u> (A) <u>350</u>	(B)
4					
5				Prevalence Index = $B/A = 2.80$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	۱
8				X 2- Dominance Test is >50%	
9				X 3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide s	upporting
11				data in Remarks or on a separate she	et)
	50	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (	
1				¹ Indicators of hydric soil and wetland hydrol	ogy must
2				be present, unless disturbed or problematic	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	
				Present?	
Remarks:					

US Army Corps of Engineers

so	I	I

Sampling Point:

SP20

Profile De	scription: (Descr	ibe to the depth	needed to document	t the indicat	or or coi	nfirm the	e absence of in	dicators.)
Depth	 Matr	-		ox Features				-
<u> </u>					Tur a ¹	1 c 2	Tove	Bemerice
(inches) 0-4	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture Silt loam	Remarks
0-4	10 YR 3/3 Gravel	80					Sill IOan	
			10 VD 6/2	10			Silt loom	
4-16	10 YR 4/2	90	10 YR 6/2	10	C	M	Silt loam	
1								
<i>,</i> ,			Reduced Matrix, CS=C		oated Sa	nd Grair	is. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soi	Indicators: (App	licable to all LF	Rs, unless otherwise	e noted.)			Indicators for	Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Mucł	< (A10)
	Epipedon (A2)	_	Stripped Matrix (S6)					nt Material (TF2)
	Histic (A3)	_	Loamy Mucky Minera	al (F1) <b>(avce</b>	nt MI RA	1)		ow Dark Surface (TF12)
	, , , , , , , , , , , , , , , , , , ,	_				<b>、</b> ')		plain in Remarks)
	gen Sulfide (A4)		Loamy Gleyed Matrix Depleted Matrix (F3)					Dain in Remarks)
·	ed Below Dark Su							
	Dark Surface (A12)		_Redox Dark Surface	. ,				hydrophytic vegetation and
	Mucky Mineral (S	·	Depleted Dark Surfa				-	drology must be present,
Sandy	Gleyed Matrix (S4	-)	Redox Depressions	(F8)			unless dist	turbed or problematic.
Restrictive	Layer (if present	):						
Type:		•						
••	(inches):		_		Hvo	dric Soil	Present? Y	′es X No
•	· · ·		-					
Remarks:								
HYDROL	OGY							
Wotland H	/drology Indicato	re.						
							Casandan	(Indiantona (2 or more required)
	•	of one required;	check all that apply)			_		/ Indicators (2 or more required)
	e Water (A1)		Water-Stained Le		except M	LRA		Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4	В)				and 4B)
X Satura			Salt Crust (B11)					ge Patterns (B10)
	Marks (B1)		Aquatic Invertebr				<u> </u>	ason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide					ion Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	-	-	oots (C3	· · · · · · · · · · · · · · · · · · ·	prphic Position (D2)
	At or Crust (B4)		Presence of Redu		,			v Aquitard (D3)
	eposits (B5)		Recent Iron Redu		•	'		eutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		) (LRR	A)		Ant Mounds (D6) (LRR A)
	tion Visible on Aer		Other (Explain in	Remarks)			Frost-H	leave Hummocks (D7)
Sparse	ely Vegetated Con	cave Surrace (B	»)					
Field Obs	ervations:							
Surface W	ater Present?	Yes X N	o Depth (Inc	ches): 2				
Water Tab	le Present?	res X N	o Depth (Inc	ches):				
Saturation	Present?	res X N	o Depth (Inc	ches):		Wetla	nd Hydrology F	Present? Yes <u>X</u> No
(includes of	capillary fringe)							
Describe I	Recorded Data (str	eam gauge, mor	itoring well, aerial pho	tos, previous	s inspecti	ons), if a	available	
Remarks:								

Project/Site: Newpo	Project/Site: Newport Municipal Airport			City/Co	City/County: City of Newport				Sampling Dat	e: 28-1	May-2019
Applicant/Owner:	City of New	wport			-		State:	OR	Sampling Poi	nt:	SP21
Investigator(s): Jeff	Barna, PW	S and Luke Johnson	l	Sectio	n, Tow	nship, Rang	e: Secti	on 29, T	ownship 11 S, F	Range 11 S	6
Landform (hillslope,	terrace, et	c.): terrace		Local rel	lief (co	ncave, conv	ex, none):	none		Slope (%):	4
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 4	44.564933			Long: -12	4.05503	5 E	Datum: NA	D83
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50	0 percent s	lopes			NV	/I classi	fication: Near F	R4SBC	
Are climatic / hydrole	ogic condit	ions on the site typic	al for this ti	me of year?	Yes	No	X (lfn	o, expla	in in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	ntly disturbed?	-	Are "Norm	al Circum	stances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	v problematic?		(If needed	, explain a	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks:							

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species	
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC:	1 (A)
2. Picea sitchensis	5		FAC		
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	65	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	40	1	FACU	That Are OBL, FACW, or FAC:	25.00 (A/B)
2					
3.				Prevalence Index worksheet:	
4				Total % Cover of:	Multiply by:
5				OBL species x 1=	=
	40	= Total Cover		FACW species x 2=	=
Herb Stratum (Plot size: 5' R)				FAC species 10 x 3=	= 30
1. Polystichum munitum	10	1	FACU	FACU species 110 x 4=	= 440
2. Blechnum spicant	5	1	FAC	UPL species x 5=	=
3				Column Totals: 120 (A)	470 (B)
4.					
5.				Prevalence Index = B/A =	<u>3.92</u>
6				Hydrophytic Vegetation Indicate	ors:
7				1- Rapid Test For Hydrophytic	Vegetation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹	(Provide supporting
11.				data in Remarks or on a se	parate sheet)
	15	= Total Cover		5- Wetland Non-Vascular Plan	its ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Ve	egetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetle	and hydrology must
2.				be present, unless disturbed or p	roblematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes	No X
				Present?	
Remarks:				1	

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SOIL								Sampling Point:	SP21
Profile Description	: (Describe to	the depth r	needed to document	the indica	tor or cor	nfirm the	e absence of ir	dicators.)	
Depth	Matrix		Redo	x Features					
<u>``</u>	or (moist) ) YR 3/3	%	Color (moist)	%	Type ¹	Loc ²	Texture Silt loam	Remar	ks
						_			
	ration D-Deplet		educed Matrix, CS=Co				2	ocation: PL=Pore Li	ning M-Matr
			Rs, unless otherwise		Jualeu Jai			r Problematic Hyd	
Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfie	a (A2) 3) de (A4) 7 Dark Surface (A face (A12) 1ineral (S1)		Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Minera Loamy Gleyed Matrix Depleted Matrix (F3) Redox Dark Surface ( Depleted Dark Surfac Redox Depressions (I	l (F1) <b>(exc</b> (F2) F6) e (F7)	ept MLRA	<b>( 1)</b>	2 cm Muc Red Pare Very Shal Other (Ex Indicators of wetland h		'F12) ion and resent,
Restrictive Layer (i Type: Depth (inches): Remarks:	· /				Hyd	Iric Soil	Present?	Yes <u>No</u>	<u>x</u>
HYDROLOGY									
Wetland Hydrology		required; c	check all that apply)			_	Secondar	y Indicators (2 or m	ore required)
	ble (A2) (A1) (B2) (B2) (B2) (B2) (B4) (B4) (B5)		Water-Stained Lea 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosph Presence of Redu Recent Iron Reduc Stunted or Stresse Other (Explain in F	ttes (B13) Odor (C1) neres along ced Iron (C ction in Tille ed Plants (I	Living Ro 4) ed Soils (C	pots (C3 C6)	4A, Draina Dry-Se Satura ) Geome Shallo FAC-N Raiseo	Stained Leaves (BS and 4B) ge Patterns (B10) eason Water Table ( tion Visible on Aeria orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( Heave Hummocks (	(C2) al Imagery (C9) LRR A)
	sent? Yes nt? Yes ? Yes ringe)	No No No auge, monit	X Depth (Inc	hes): > hes): >	6 6		nd Hydrology   available:	Present? Yes	NoX
Remarks:									

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/County:	City/County: City of Newport			Sampling Date	e: 28-Ma	y-2019
Applicant/Owner:	City of Newp	ort			State: OF				t: SF	22
Investigator(s): Jeff	Section, To	Section, Township, Range: Section 29, To				ownship 11 S, Range 11 S				
Landform (hillslope,	terrace, etc.)	: hillslope	Local relief (c	oncave, conve	x, none):	convex	S	lope (%):	4	
Subregion (LRR):	564982		_ong: -124	1.05444	8 D	atum: NAD8	3			
Soil Map Unit Name	: 42E - Nels	scott loam, 12 to 50	percent slope:	S		NW	l classif	ication: Near R4	4SBC	
Are climatic / hydrol	ogic conditior	ns on the site typical	for this time of	of year? Yes	NoX	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	/ disturbed?	Are "Norma	l Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pr	oblematic?	(If needed,	explain an	iy answ	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	Is the Sampled Area within a Wetland?	Yes	x	No
Remarks:							

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

US Army Corps of Engineers

SOIL										Sampling Point:	SP22
Profile De	scription: (Descr	ibe to the	e depth n	needed to	document th	e indicato	or or conf	irm the	absence of inc	licators.)	
Depth	Mat	trix			Redox	Features				·	
(inches)	Color (moist		%	Color	(moist)	%	Type ¹	Loc ²	Texture	Remar	ks
0-4	10 YR 3/3	· <u>/</u>	80		(	/0	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Silt loam		
0-4	Gravel		20								
4-16	10 YR 4/2		90	10 Y	R 6/2	10	С	М	Silt loam		
							·				
1									2.		
	Concentration, D=						ated Sand	d Grains		cation: PL=Pore Lin	
Hydric Soil	Indicators: (App	blicable to	D all LRR	s, unless	otherwise no	oted.)			Indicators to	r Problematic Hyd	ric Solls":
Histos	ol (A1)			Sandy R	edox (S5)				2 cm Muc	:k (A10)	
Histic	Epipedon (A2)			Stripped	Matrix (S6)					nt Material (TF2)	
Black	Histic (A3)			Loamy N	lucky Mineral	(F1) <b>(exce</b>	ept MLRA	. 1)	Very Sha	llow Dark Surface (1	F12)
	gen Sulfide (A4)				leyed Matrix	(F2)			Other (Ex	plain in Remarks)	
·	ed Below Dark Su	``	1) <u>X</u>	-	Matrix (F3)						
	Dark Surface (A12	,		-	ark Surface (I					hydrophytic vegetat	
	Mucky Mineral (S			-	Dark Surface					ydrology must be pr	
Sandy	Gleyed Matrix (S4	4)		_Redox D	epressions (F	-8)			unless dis	sturbed or problema	tic.
Restrictive	Layer (if present	<u>)</u> .									
Type:	Luyer (ii present										
• •	(inches):			-			Hyd	lric Soil	Present?	Yes X No	
				-							
Remarks:											
HYDROL	OGY										
Wetland Hy	ydrology Indicato	rs:									
Primary In	dicators (minimum	n of one re	equired; c	heck all th	at apply)				Secondar	y Indicators (2 or m	ore required)
X Surfac	e Water (A1)			Wate	r-Stained Lea	ves (B9) (	except M	LRA	Water	-Stained Leaves (BS	) (MLRA 1, 2,
X High V	Vater Table (A2)				, 4A, and 4B)				4A	, and 4B)	
X Satura	ition (A3)			Salt C	Crust (B11)				Draina	ige Patterns (B10)	
	Marks (B1)			Aqua	tic Invertebrat	tes (B13)			Dry-Se	eason Water Table (	C2)
	ent Deposits (B2)				ogen Sulfide C					tion Visible on Aeria	
	eposits (B3)				zed Rhizosph	0	•	oots (C3	·	orphic Position (D2)	
~	Mat or Crust (B4)				ence of Reduc	```	,			w Aquitard (D3)	
	eposits (B5) e Soil Cracks (B6)				nt Iron Reduc ed or Stresse		`	,		leutral Test (D5) d Ant Mounds (D6) (	
	ation Visible on Ae		rv(B7)		· (Explain in R			<b>~</b> )		Heave Hummocks (	
	ely Vegetated Con	-	• • •	_	(	,				(	,
			. ,				<u> </u>				
	ervations: /ater Present?	Yes X	N	0	Depth (Inch	nes): 2	,				
	ble Present?	Yes X	-		Depth (Inch Depth (Inch		[				
Saturation		Yes X	-		Depth (Incl Depth (Incl			Wetla	nd Hydrology	Present? Yes	X No
	capillary fringe)		_		(	-/			,		
	Recorded Data (sti	ream gaug	ge, monit	oring well,	aerial photos	, previous	inspection	ns), if av	vailable:		
Remarks:											

Project/Site: Newport Municipal Airport	City/County: City of Newport Sampling Date: 28-May-2019
Applicant/Owner: City of Newport	State: OR Sampling Point: SP23
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 (%): 6
Subregion (LRR): A2 - Willamette Valley Lat: 44	564989 Long: -124.054523 Datum: NAD83
Soil Map Unit Name: 42E - Nelscott loam, 12 to 50 percent slo	NWI classification: Near R4SBC
Are climatic / hydrologic conditions on the site typical for this tim	e of year? Yes No X (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology significan	y disturbed? Are "Normal Circumstances" present Yes X No
Are Vegetation Soil or Hydrology naturally	roblematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site man she	wing sampling point locations, transects, important features, etc.
-	ming sampling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area
Wetland Hydrology Present? Yes No X	within a Wetland? Yes NoX
Remarks: open mossy forest floor with duff and litter	
Recorded precipitation in previous months was be	w normal range
<b>VEGETATION – Use scientific names of plants.</b>	
Absol	te Dominant Indicator Dominance Test worksheet:
Tree Stratum (Plot size: 30' R) % Co	er Species? Status Number of Dominant Species
1. Tsuga heterophylla60	1 FACU That Are OBL, FACW, or FAC: 2 (A)
2. Picea sitchensis 5	FAC
3	Total Number of Dominant
4	Species Across All Strata: 6 (B)
65	= Total Cover
Sapling/Shrub Stratum (Plot size: 30' R)	Percent of Dominant Species

3				Total Number of	Dominant			
4.				Species Across	All Strata:		6	(B)
	65	= Total Cover						
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Domin	nant Species			
1. Gaultheria shallon	10	1	FACU	That Are OBL, F.	ACW, or FAC	:	33.33	(A/B)
2. Rubus spectabilis	5	1	FAC					
3. Sambucus racemosa	10	11	FACU	Prevalence Inc				
4				Total % Cov	er of:	Mu	ultiply by:	_
5				OBL species		x 1=		_
	25	= Total Cover		FACW species		x 2=		
Herb Stratum (Plot size: 5' R)				FAC species	30	x 3=	90	
1. Polystichum munitum	35	1	FACU	FACU species		x 4=		
2. Blechnum spicant	20	1	FAC	UPL species		x 5=		_
3. Pteridium aquilinum	10		FACU	Column Totals:	30 (A)	-	90	(B)
4. Athyrium cyclosorum	5		FAC	-		-		_ ` `
5.				Prevalence	Index = B/A =	=	3.00	
6.				Hydrophytic V	egetation Ind	licators	5:	
7				1- Rapid Tes	st For Hydrop	hytic V	egetation	
8.		_		2- Dominand	ce Test is >50	)%		
9.				X 3- Prevalence	ce Index is ≤3	.0 ¹		
0.				4- Morpholo	gical Adaptati	ons ¹ (F	Provide su	pporting
1.					emarks or on			•••••
	70	= Total Cover			Non-Vascular			-,
Woody Vine Stratum (Plot size: 30' R)		-		6- Problema	tic Hydrophyt	ic Vege	etation ¹ (E	xplain)
1.				¹ Indicators of h	vdric soil and	wetlan	d hydrolo	qy must
2.				be present, unl				0,
		= Total Cover		Hydrophytic				
% Bare Ground in Herb Stratum				Vegetation	Yes		No	х
				Present?	165		NO	<u>^</u>
Remarks: open mossy forest floor with duff and lit	ter							

US Army Corps of Engineers

Sampling Point:

SP23

Profile Description: (Describe to the dept	h needed to document the indicator or confirm th	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 3/3		Silt loam
<u> </u>		·
¹ Type: C=Concentration D=Depletion RM=	Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Depth (inches):	Hydric Soi	l Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	l; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	 1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
		Frost-Hogya Hummorks (1)/)
Inundation Visible on Aerial Imagery(B7)		
Inundation Visible on Aerial Imagery(B7)		
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations:	8) No <u>X</u> Depth (Inches): <u>NA</u>	
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16	
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16	and Hydrology Present? Yes NoX
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 Wetla	and Hydrology Present? Yes <u>No X</u>
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16	and Hydrology Present? Yes <u>No X</u>
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 Wetla	and Hydrology Present? Yes <u>No X</u>
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B Field Observations: Surface Water Present? Yes	No X Depth (Inches): NA No X Depth (Inches): >16 No X Depth (Inches): >16 Wetla	and Hydrology Present? Yes <u>No X</u>

Project/Site: Newport Municipal Airport		City/County: City of Newport				Sampling D	Date:	28-May	-2019
Applicant/Owner: City of Newport				State:	OR	Sampling F	oint:	SP2	24
Investigator(s): Jeff Barna, PWS and Luke Johnso	n	Section, To	wnship, Range:	Sectio	n 29, T	ownship 11 S	, Range	11 S	
Landform (hillslope, terrace, etc.): hillslope		Local relief (concave, convex, none): none				Slope (%):			6
Subregion (LRR): A2 - Willamette Valley	Lat: 44.565	5091	L	Datum: NAD83					
Soil Map Unit Name: 42E - Nelscott loam, 12 to	50 percent slopes			NW	l classif	ication: Nea	r R4SBC	;	
Are climatic / hydrologic conditions on the site type	ical for this time of	year? Yes	s No X	(If no	, explai	n in Remarks	s.)		
Are Vegetation Soil or Hydrology	significantly di	sturbed?	Are "Normal	Circumst	ances"	present' Yes	s X	No	
Are Vegetation Soil or Hydrology	naturally probl	ematic?	(If needed, e	xplain an	y answ	ers in Remar	ks.)		
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No X No X No X		Sampled Area	Yes		No	x		
Remarks: open mossy forest floor with duff and	d litter								
Recorded precipitation in previous m	onths was below n	ormal range						-	
VEGETATION – Use scientific names	of plants.								
Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	01.1			vorksheet: nt Species			
1. Tsuga heterophylla	15	1				CW, or FAC:		1	(A)
a Diago citaboncia	FF	1	EAC						•

2. Picea sitchensis	55	1	FAC					-	
3.				Total Number of I	Dominant				
4.				Species Across A	Species Across All Strata:				
	70	= Total Cover						-	
Sapling/Shrub Stratum (Plot size: 30' R)		—		Percent of Domin	ant Speci	es			
1. Gaultheria shallon	15	1	FACU	That Are OBL, FA	ACW, or F	AC:	16.67	(A/B)	
2. Vaccinium parvifolium	20	1	FACU						
3. Sambucus racemosa	10	1	FACU	Prevalence Ind	ex works	heet:			
4				Total % Cove	er of:	Mu	Itiply by:	_	
5				OBL species		x 1=			
	45	= Total Cover		FACW species		x 2=		_	
Herb Stratum (Plot size: 5' R)				FAC species	55	x 3=	165	-	
1. Polystichum munitum	25	1	FACU	FACU species	95	x 4=	380	-	
2. Pteridium aquilinum	10		FACU	UPL species		x 5=		-	
3. Athyrium cyclosorum	5		FAC	Column Totals:	150	(A) -	545	(B)	
4.				-		-			
5.				Prevalence	Index = B/	'A =	3.63		
6.				Hydrophytic Ve	getation	Indicators	5:		
7.		_		1-Rapid Tes	st For Hyd	rophytic V	egetation		
8		_		2- Dominanc	e Test is :	>50%	-		
9.		_		3- Prevalenc	e Index is	≤3.0 ¹			
10.				4- Morpholog	gical Adap	tations ¹ (F	rovide su	oporting	
11.			<u> </u>	data in Re					
	40	= Total Cover		5-Wetland N				, ,	
Woody Vine Stratum (Plot size: 30' R)		_		6- Problemat	tic Hydrop	hytic Vege	etation ¹ (Ex	plain)	
1.				¹ Indicators of h	ydric soil a	and wetlan	d hydrolog	y must	
2.				be present, unle	•				
		= Total Cover		Hydrophytic					
% Bare Ground in Herb Stratum				Vegetation	Yes		No	х	
				Present?	163		<u> </u>	<u> </u>	
Remarks: open mossy forest floor with duff and litt	er								
	-								

US Army Corps of Engineers

L

Sampling Point:

SP24

Profile Description: (Describe to the de	pth needed to document the indicator or	confirm the	e absence of ind	licators.)
Depth Matrix	Redox Features			
(inches) Color (moist) %	-	pe ¹ Loc ²	Texture	Remarks
0-16 10 YR 3/3	Color (moist) % Typ		Silt loam	Remarks
0-10 10 18 3/3				
			<u> </u>	
¹ Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, CS=Covered or Coated	Sand Grain	s. ² Loc	cation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)		Indicators for	Problematic Hydric Soils ³ :
Histopol (A1)	Sandy Raday (SE)		2 om Musik	(410)
Histosol (A1)	Sandy Redox (S5)		2 cm Muck	
Histic Epipedon (A2)	Stripped Matrix (S6)			t Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except M	LRA 1)	Very Shallo	ow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Expl	lain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)			
Thick Dark Surface (A12)	Redox Dark Surface (F6)		3Indicators of hy	ydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland hyd	drology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless distu	urbed or problematic.
Restrictive Layer (if present):				
Туре:				
Depth (inches):		Hydric Soil	Present? Ye	es No X
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one require	ed; check all that apply)		Secondary	Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (excer	ot MLRA	Water-S	Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)			and 4B)
Saturation (A3)	Salt Crust (B11)		Drainage	e Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)			son Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Saturatio	on Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Livin	a Roots (C3)		phic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	g		Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled So	ils (C6)		utral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (L	. ,		Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(E				eave Hummocks (D7)
Sparsely Vegetated Concave Surface				
	()			
Field Observations:				
Surface Water Present? Yes	No X Depth (Inches): NA			
Water Table Present? Yes	No X Depth (Inches): >16			
Saturation Present? Yes	No X Depth (Inches): >16	Wetla	nd Hydrology Pi	resent? Yes <u>No X</u>
(includes capillary fringe)				
Describe Recorded Data (stream gauge, r	nonitoring well, aerial photos, previous insp	ections), if a	available	
Remarks:				

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/Co	City/County: City of Newport				Sampling Da	te: 28	8-May-2	019	
Applicant/Owner:	City of Ne	City of Newport			-	State: OR			Sampling Poi	int: SP2			
Investigator(s): Jeff Barna, PWS and Luke Johnson				Sectio	Section, Township, Range: Section 29, To				ownship 11 S, Range 11 S				
Landform (hillslope,	terrace, et	c.): hillslope		Local re	lief (co	ncave, conv	vex, no	one): <u>c</u>	convex		Slope (%	.):	4
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.565085			Long	j: -124	.05424	9	Datum: <u>N</u>	IAD83	
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50	) percent slo	pes				NWI	classif	ication: Near I	R4SBC		
Are climatic / hydrole	ogic condit	tions on the site typic	al for this tim	e of year?	Yes	No	Х	(If no,	explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	•	Are "Norm	nal Ciro	cumsta	ances"	present' Yes	XN	lo	
Are Vegetation	Soil	or Hydrology	naturally p	oroblematic?		(If needed	l, expla	ain ang	answ	ers in Remarks	5.)		

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area				
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No	
Remarks:								

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Blat size) ool D	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				
3				Total Number of Dominant
4				Species Across All Strata: <u>3</u> (B)
		= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>30' R)</u>	40		540	Percent of Dominant Species
1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)
2				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species 30 x 1= 30
	10	= Total Cover		FACW species 20 x 2= 40
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Blechnum spicant	10	1	FAC	FACU species x 4=
2. Lysichiton americanus	30	1	OBL	UPL species x 5=
3				Column Totals: <u>50</u> (A) <u>70</u> (B)
4				
5				Prevalence Index = $B/A = 1.40$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9.				X 3- Prevalence Index is $\leq 3.0^1$
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	40	= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		
% Bare Ground in Herb Stratum				Hydrophytic Vegetation Yes X No
% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No Present?
Demoder				r 163611.:
Remarks:				

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SOIL	
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Profile De	scription: (Describe to	the depth	needed to document	the indicate	or or cor	firm the	e absence of in	dicators.)
Depth	Matrix			ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 3/3	80		70	туре	LUC	Silt loam	Remarks
0-4	Gravel	20						
4-16	10 YR 4/2	90	10 YR 6/2	10	С	М	Silt loam	
1							2	
	Concentration, D=Deple				bated Sar	nd Grain		cation: PL=Pore Lining, M=Matr
Hydric Sol	Indicators: (Applicab	le to all LR	Rs, unless otherwise	e noted.)			Indicators for	Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muck	к (А10)
Histic	Epipedon (A2)		Stripped Matrix (S6)					t Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) <b>(exce</b>	pt MLRA	. 1)	Very Shall	ow Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix				Other (Exp	lain in Remarks)
·	ed Below Dark Surface	(A11) X	Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface					ydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfa					drology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dist	urbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth	(inches):				Hyd	ric Soil	Present? Y	es X No
Remarks:					I			
HYDROL	OGY							
Watlend D	wheelpow Indiantana							
	vdrology Indicators:	o no cultro du					Casandan	Indiactors (2 or more required)
	dicators (minimum of on	e requirea;				_		Indicators (2 or more required)
	e Water (A1)		Water-Stained Le	. , .	xcept M	LRA		Stained Leaves (B9) (MLRA 1, 2,
X Satura	Vater Table (A2)		1, 2, 4A, and 4 Salt Crust (B11)	в)				<b>and 4B)</b> je Patterns (B10)
	Marks (B1)		Aquatic Invertebr	ates (B13)				ason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide					ion Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	heres along	Living Ro	oots (C3		rphic Position (D2)
Algal N	Mat or Crust (B4)		Presence of Redu	uced Iron (C4	4)		Shallow	Aquitard (D3)
	eposits (B5)		Recent Iron Redu			,		eutral Test (D5)
	e Soil Cracks (B6)	(=-)	Stunted or Stress	-	1) ( <b>LRR</b>	<b>A</b> )		Ant Mounds (D6) (LRR A)
	ation Visible on Aerial Im		Other (Explain in	Remarks)			Frost-H	eave Hummocks (D7)
	ely Vegetated Concave S	Sullace (B8	1					
	ervations:							
		X No						
Water Tat Saturation	-	X No X No				Wette	nd Hydrology P	resent? Yes X No
	capillary fringe)			unes)		wella		
•	Recorded Data (stream g	gauge, moni	toring well, aerial pho	tos, previous	inspection	ons), if a	available	
Remarks:								

Project/Site: Newport N	1unicipal Ai	port			City/County	City of Nev	wpor	t		Samplii	ng Da	ate:	28-May	-2019
Applicant/Owner: Cit	y of Newpo	rt			_			State:	OR	Samplii	ng Po	pint:	SP2	26
Investigator(s): Jeff Bar	na, PWS a	nd Luke Johnson			Section, To	ownship, Rar	nge:	Sectio	n 29, T	ownship '	11 S,	Range	e 11 S	
Landform (hillslope, ter	race, etc.):	hillslope			Local relief (	concave, cor	nvex	none):	none		Slope (%): 8			8
Subregion (LRR): A2	- Willamet	te Valley	Lat	44.56			L	ong: -124	1.05407	'4		Datun	n: NAD83	
Soil Map Unit Name:	42E - Nelsc	ott loam, 12 to 50	) percen	t slopes	6		-	NW	l classif	fication: I	Vear	R4SB	с	
Are climatic / hydrologic	c conditions	on the site typic	al for this	s time o	of year? Yes	s No	Х	(If no	, explai	in in Rem	arks.	)		
Are Vegetation	Soil d	or Hydrology	signifi	cantly c	disturbed?	Are "Nori	mal	Circumst	ances"	present	Yes	Х	No	
Are Vegetation	Soil d	or Hydrology	natura	ally prob	blematic?	(If neede	d, e	kplain an	iy answ	ers in Re	mark	s.)		
SUMMARY OF FI			-		ing samplir	ng point le	oca	tions,	trans	ects, in	ιpo	rtant	featur	es, etc
Hydrophytic Vegetation	Present?	Yes	<u>No</u>	X										
Hydric Soil Present?		Yes	No	Х	-	Sampled A								
Wetland Hydrology Pre	sent?	Yes	No	Х	_ within	n a Wetland	?	Yes			No	Х	_	
Remarks: open mos	sy forest flo	oor with duff and	litter											
Recorded	precipitatio	n in previous mo	nths was	below	normal range									

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Tsuga heterophylla	20	1	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2. Picea sitchensis	40	1	FAC	
3.	40		TAC	Total Number of Dominant
4.				Species Across All Strata: 8 (B)
··	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)	00			Percent of Dominant Species
1. Gaultheria shallon	15	1	FACU	That Are OBL, FACW, or FAC: 25.00 (A/B)
2. Vaccinium parvifolium	20	1	FACU	
3. Menziesia ferruginea	10	1	FACU	Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species x 1=
	45	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 55 x 3= 165
1. Polystichum munitum	10	1	FACU	FACU species 85 x 4= 340
2. Blechnum spicant	10	1	FAC	UPL species x 5=
3. Pteridium aquilinum	10	1	FACU	Column Totals: 140 (A) 505 (B)
4. Athyrium cyclosorum	5		FAC	、/
5.				Prevalence Index = $B/A = \frac{3.61}{2}$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	35	= Total Cover		5 Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1.				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks: open mossy forest floor with duff and litt	er			

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Sampling Point: SP26

Profile Description: (Describe to the depth				
	needed to document the indicator or co	onfirm the ab	sence of indicators.)	
Depth Matrix	Redox Features			
		1 . 2		
(inches) Color (moist) %	Color (moist) % Type ¹		Texture Remarks	_
0-16 10 YR 3/3		Sil	t loam	
				_
				_
<u> </u>	· ·			_
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated S	and Grains.	² Location: PL=Pore Lining, M=M	atr
Hydric Soil Indicators: (Applicable to all LF	Rs, unless otherwise noted.)	Inc	licators for Problematic Hydric Soils ³ :	
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A10)	
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Material (TF2)	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLR	RA 1)	Very Shallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	· _	Other (Explain in Remarks)	
	Depleted Matrix (F3)			
Depleted Below Dark Surface (A11)				
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3 <b>In</b> e	dicators of hydrophytic vegetation and	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland hydrology must be present,	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbed or problematic.	
Restrictive Layer (if present):				
Type:				
Depth (inches):	- "	ydric Soil Pre	sent? Yes No X	
	- '''			
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
	check all that apply)		Secondary Indicators (2 or more require	d)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required			· · · · · · · · · · · · · · · · · · ·	<u> </u>
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except I	 MLRA	Water-Stained Leaves (B9) (MLRA 1	<u> </u>
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B)	 MLRA	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B)	<u> </u>
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11)	 MLRA	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10)	<u> </u>
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	 MLRA	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)	, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10)	, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery	, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Roots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF	Roots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRR Other (Explain in Remarks)	Roots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRR Other (Explain in Remarks)	Roots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRR Other (Explain in Remarks)	Roots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B4)	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRR Other (Explain in Remarks)	Roots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B4)         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3)	Roots (C3) (C6)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B4)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): NA o X Depth (Inches): >16	Roots (C3) (C6) R A)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	(C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)       High Water Table (A2)         Saturation (A3)       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (B4)         Field Observations:       Surface Water Present?       Yes       N         Water Table Present?       Yes       N         Saturation Present?       Yes       N	Water-Stained Leaves (B9) (except I 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LRF Other (Explain in Remarks) 3) o X Depth (Inches): NA	Roots (C3) (C6) R A)	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)	(C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B4)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         N       Yes       N         (includes capillary fringe)       Yes	Water-Stained Leaves (B9) (except I         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living F         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils         Stunted or Stressed Plants (D1) (LRF         Other (Explain in Remarks)         B)         o       X         Depth (Inches):       >16         o       X         Depth (Inches):       >16	Roots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	(C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)       High Water Table (A2)         Saturation (A3)       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (B4)         Field Observations:       Surface Water Present?       Yes       N         Water Table Present?       Yes       N         Saturation Present?       Yes       N	Water-Stained Leaves (B9) (except I         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living F         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils         Stunted or Stressed Plants (D1) (LRF         Other (Explain in Remarks)         B)         o       X         Depth (Inches):       >16         o       X         Depth (Inches):       >16	Roots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	(C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B4)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Vater Table Present?       Yes         Naturation Present?       Yes         Naturation Present?       Yes         Naturation Present?       Yes         Naturation Present?       Yes         Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) (except I         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living F         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils         Stunted or Stressed Plants (D1) (LRF         Other (Explain in Remarks)         B)         o       X         Depth (Inches):       >16         o       X         Depth (Inches):       >16	Roots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	(C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B4)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         N       Yes       N         (includes capillary fringe)       Yes	Water-Stained Leaves (B9) (except I         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living F         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils         Stunted or Stressed Plants (D1) (LRF         Other (Explain in Remarks)         B)         o       X         Depth (Inches):       >16         o       X         Depth (Inches):       >16	Roots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	(C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B4)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Vater Table Present?       Yes         Naturation Present?       Yes         Naturation Present?       Yes         Naturation Present?       Yes         Naturation Present?       Yes         Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) (except I         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living F         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils         Stunted or Stressed Plants (D1) (LRF         Other (Explain in Remarks)         B)         o       X         Depth (Inches):       >16         o       X         Depth (Inches):       >16	Roots (C3) (C6) R A) Wetland H	Water-Stained Leaves (B9) (MLRA 1 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	(C9)

Project/Site: Newpo	rt Municipa	al Airport		City/Co	ounty:	City of New	oort		Sampling Dat	e: 28-N	<i>l</i> lay-2019
Applicant/Owner:	City of Ne	wport					State:	OR	Sampling Poi	nt:	SP27
Investigator(s): Jeff	Barna, PW	/S and Luke Johnson		Sectio	n, Tow	nship, Rang	e: Sectio	on 29, T	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local re	lief (co	ncave, conv	ex, none):	convex		Slope (%):	4
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.565251			Long: -12	4.05399	14 E	Datum: NAI	D83
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50	) percent slo	pes			NW	I classi	fication: Near F	R4SBC	
Are climatic / hydrole	ogic condit	tions on the site typic	al for this tim	e of year?	Yes	No	X (lf no	o, explai	in in Remarks.)		
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	_	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally p	problematic?		(If needed	, explain ai	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	 lo
Remarks:	_						 

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.	76 COver	Species	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)	
2.				$\frac{111}{3}$	
3.				Total Number of Dominant	
4.				Species Across All Strata: 4 (B)	
···		= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or FAC:(A/B)	
2					
3				Prevalence Index worksheet:	
4		. <u> </u>		Total % Cover of: Multiply by:	
5				OBL species 20 x 1= 20	
	10	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species 20 x 3= 60	
1. Blechnum spicant	10	1	FAC	FACU species 10 x 4= 40	
2. Lysichiton americanus	20	1	OBL	UPL species x 5=	
3. Pteridium aquilinum	10	1	FACU	Column Totals: 50 (A) 120 (B)	
4.					
5.				Prevalence Index = $B/A = 2.40$	
6.				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				X 2- Dominance Test is >50%	
9.				X 3. Prevalence Index is $\leq 3.0^1$	
10.				4- Morphological Adaptations ¹ (Provide supporting	g
11.				data in Remarks or on a separate sheet)	-
	40	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)	
1				¹ Indicators of hydric soil and wetland hydrology mus	t
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	
				Present?	
Remarks:				•	_

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SO	I	I
50		5

SOIL								Sampling Point: SP27
Profile Des	scription: (Describe to	the depth i	needed to document	the indicate	or or cor	nfirm the	e absence of indi	icators.)
Depth	Matrix	-		x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
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	С	Μ	Silt loam	
							<u> </u>	
	Concentration, D=Deple	tion PM-P	educed Matrix CS-C	overed or Co	ated Sa	od Grain	² l oc	ation: PL=Pore Lining, M=Matr
	Indicators: (Applicabl				aleu Sal	iu Grain		Problematic Hydric Soils ³ :
-				noteu.)			indicators for i	Toblematic Hydric Sons .
	ol (A1)		Sandy Redox (S5)				2 cm Muck	
	Epipedon (A2)		Stripped Matrix (S6)					Material (TF2)
	Histic (A3)		Loamy Mucky Minera		pt MLRA	. 1)		w Dark Surface (TF12)
	gen Sulfide (A4)	· · · · · · · · · · · · · · · · · · ·	Loamy Gleyed Matrix	(F2)			Other (Expla	ain in Remarks)
·	ed Below Dark Surface (	A11) X	Depleted Matrix (F3)	(50)				
	Dark Surface (A12)		Redox Dark Surface	. ,				drophytic vegetation and
	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Dark Surfac	· · /			-	rology must be present,
Sandy	Gleyeu Matrix (34)		Redox Depressions (	го)			uniess distu	rbed or problematic.
Restrictive	Layer (if present):							
Type:	, , ,							
	(inches):				Hyd	lric Soil	Present? Ye	s X No
Remarks:								
Nemarks.								
	007							
HYDROL								
Wetland Hy	vdrology Indicators:							
Primary In	dicators (minimum of on	e required;	check all that apply)			_	Secondary I	ndicators (2 or more required)
X Surfac	e Water (A1)		Water-Stained Le	aves (B9) ( <b>e</b>	xcept M	LRA	Water-St	tained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4E	3)				nd 4B)
X Satura	( )		Salt Crust (B11)				<b>—</b>	Patterns (B10)
	Marks (B1)		Aquatic Invertebra	. ,				son Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide					on Visible on Aerial Imagery (C9
	eposits (B3)		Oxidized Rhizospl	0	0	oots (C3	/ <u> </u>	ohic Position (D2)
°	/lat or Crust (B4) eposits (B5)		Presence of Redu Recent Iron Redu		<i>'</i>	26)		Aquitard (D3) utral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		•	,		Ant Mounds (D6) (LRR A)
	ation Visible on Aerial Im	agery(B7)	Other (Explain in I			<b>~</b> )		ave Hummocks (D7)
	ely Vegetated Concave S	0,00,0		(onitalitio)				
·		. ,			1			
	ervations: /ater Present? Yes	X No	Depth (Inc	hes): 2				
		X No		· · · · · · · · · · · · · · · · · · ·				
Saturation		X No		· · · · · · · · · · · · · · · · · · ·		Wetla	nd Hydrology Pr	esent? Yes X No
	capillary fringe)			·			,	
	Recorded Data (stream of	auge, moni	toring well, aerial phot	os, previous	inspecti	ons), if a	available	
					mopoous			
		-			nopooli			
Remarks:		_				,.		

Project/Site: Newport Municipal Airport			City/County:	City of Newpo	rt		Sampling Date:	28-Ma	y-2019	
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Point:	SP	28
Investigator(s): Jeff	Section, Tov	Section, Township, Range: Section 29, Township 11			ownship 11 S, Rai	nge 11 S				
Landform (hillslope,	terrace, etc	c.): hillslope		Local relief (co	oncave, conve	k, none):	none	Slo	pe (%):	5
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.	.565582	L	.ong: <u>-12</u> 4	4.05369	6 Dat	um: NAD8	3
Soil Map Unit Name	: 42E - Ne	elscott loam, 12 to 50	percent slope	'S		NW	l classif	ication: Near R45	SBC	
Are climatic / hydrol	ogic conditi	ons on the site typical	for this time of	of year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantl	ly disturbed?	Are "Normal	Circumst	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally p	oroblematic?	(If needed, e	explain an	ny answe	ers in Remarks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No No No	X X X	Is the Sampled Area within a Wetland? Yes	No	X
Remarks: open mossy forest floor wi	th duff and lif	tter		•		

Recorded precipitation in previous months was below normal range

# **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
	% Cover	Species?	Status	Number of Dominant Species	_	<i>(</i> <b>, )</b>
1. Tsuga heterophylla	20	1	FACU	That Are OBL, FACW, or FAC:	2	(A)
2. Picea sitchensis	40	1	FAC			
3				Total Number of Dominant	_	(5)
4				Species Across All Strata:	7	(B)
	60	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species		
1. Gaultheria shallon	15	1	FACU	That Are OBL, FACW, or FAC:	28.57	(A/B)
2. Vaccinium parvifolium	20	1	FACU			
3. Menziesia ferruginea	10		FACU	Prevalence Index worksheet		
4. Rubus spectabilis	10		FAC	Total % Cover of:	Multiply by:	-
5				OBL species	x 1=	_
	55	= Total Cover		FACW species	x 2=	-
Herb Stratum (Plot size: 5' R)				FAC species 60	x 3= 180	_
1. Polystichum munitum	10	1	FACU	FACU species 85	x 4= 340	_
2. Blechnum spicant	10	1	FAC	UPL species	x 5=	_
3. Pteridium aquilinum	10	1	FACU	Column Totals: 145 (A)	520	(B)
4. Athyrium cyclosorum	5		FAC			
5				Prevalence Index = B/A =	<u>3.59</u>	
6				Hydrophytic Vegetation Indi	cators:	
7				1-Rapid Test For Hydroph	ytic Vegetation	
8.				2- Dominance Test is >50%	%	
0				3- Prevalence Index is ≤3.0	0 ¹	
9 10				4-Morphological Adaptatio	ons ¹ (Provide sur	porting
11.				data in Remarks or on a		
	35	= Total Cover		5- Wetland Non-Vascular F		
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic		olain)
				¹ Indicators of hydric soil and v	• • •	
1 2.				be present, unless disturbed		ymusi
2					or problematic.	
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum				Vegetation Yes	No	X
				Present?		
Remarks: open mossy forest floor with duff and litter						

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Profile Description: (Describe to the depth Depth Matrix	needed to document the indicator or Redox Features	confirm the a	absence of indicate	ors.)
(inches) Color (moist) %	Color (moist) % T	ype ¹ Loc ²	Texture	Remarks
0-16 10 YR 3/3			Silt loam	
			<u> </u>	
¹ Type: C=Concentration, D=Depletion, RM=		Sand Grains.		n: PL=Pore Lining, M=Matrix
Hydric Soil Indicators: (Applicable to all LF	Rs, unless otherwise noted.)		Indicators for Pro	oblematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A	10)
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Ma	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except I	VILRA 1)		Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain	i in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)		aladiaatara of buda	anhytic versitation and
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)			ophytic vegetation and logy must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)			ed or problematic.
Restrictive Layer (if present):				
Туре:				
Depth (inches):		Hydric Soil	Present? Yes	No <u>X</u>
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required	; check all that apply)		Secondary Inc	licators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (exce	ept MLRA	Water-Stai	ned Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)		4A, and	I 4B)
Saturation (A3)	Salt Crust (B11)			atterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)			n Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	na Booto (C2)		Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Oxidized Rhizospheres along Live Presence of Reduced Iron (C4)		Shallow Aq	ic Position (D2) witard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled S	oils (C6)		al Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1)	(LRR A)	Raised Ant	Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)		Frost-Heav	e Hummocks (D7)
Sparsely Vegetated Concave Surface (B	3)			
Field Observations:				
Surface Water Present? Yes	No X Depth (Inches): NA	-		
Water Table Present? Yes	No X Depth (Inches): >16 No X Depth (Inches): >16	-	nd Uudrologu, D	anto Vac No V
Saturation Present? Yes (includes capillary fringe)	No X Depth (Inches): >16	- vvetla	nd Hydrology Pres	ent? Yes <u>No X</u>
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous insp	ections), if ava	ailable:	
	о то у на так разла, разла и ор			
Remarks:				
Nemarka.				

Project/Site: Newport Municipal Airport			City/Cour	City/County: City of Newport			Sampling Date	: 28-Ma	iy-2019	
Applicant/Owner:	City of Nev	wport				State:	OR	Sampling Poin	t: SF	P29
Investigator(s): Jeff	Barna, PW	S and Luke Johnson		Section,	Township, Range	e: Sectio	n 29, T	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relie	f (concave, conve	ex, none):	none	S	lope (%):	7
Subregion (LRR):	A2 - Willa	mette Valley	Lat:	44.565601		Long: -124	4.05359	9 D	atum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 50	) percent s	lopes		NW	l classif	ication: Near Re	4SBC	
Are climatic / hydrole	ogic condit	ions on the site typic	al for this t	ime of year? Y	′es No >	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?	Are "Norma	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	y problematic?	(If needed,	explain ar	iy answ	ers in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area				
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No	_
Remarks:								

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Alnus rubra	35	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2.	·			
3.		·		Total Number of Dominant
4.				Species Across All Strata: 3 (B)
	35	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species 40 x 1= 40
	10	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species 55 x 3= 165
1. Blechnum spicant	10		FAC	FACU species 10 x 4= 40
2. Lysichiton americanus	40	1	OBL	UPL species x 5=
3. Pteridium aquilinum	10		FACU	Column Totals: 105 (A) 245 (B)
4				
5.				Prevalence Index = $B/A = 2.33$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9.				X 3- Prevalence Index is $\leq 3.0^1$
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	60	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

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SOIL	
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Profile De	scription: (Describe to	the depth	needed to document	the indicat	or or cor	firm the	e absence of in	dicators.)
Depth	Matrix		Redo	ox Features				
(inches)	Color (moist)	0/	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
<u>, , , , , , , , , , , , , , , , , , , </u>		<u>%</u>	Color (moist)	70	туре	LOC		Remarks
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	
1							2.	
'Type: C=	Concentration, D=Deple	etion, RM=F	Reduced Matrix, CS=C	overed or C	oated Sar	nd Grain	is. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soi	Indicators: (Applicab	le to all LR	Rs, unless otherwise	noted.)			Indicators for	Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Mucl	( ( 10 )
							2 cm Mucl	
	Epipedon (A2)		Stripped Matrix (S6)					nt Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) <b>(exce</b>	ept MLRA	. 1)	Very Shall	ow Dark Surface (TF12)
Hydro	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Other (Exp	plain in Remarks)
Deplet	ed Below Dark Surface (	(A11) X	Depleted Matrix (F3)				```	
	Dark Surface (A12)		Redox Dark Surface	(F6)			3Indicators of h	hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfac	( )				/drology must be present,
	•						-	•••
Sandy	Gleyed Matrix (S4)		Redox Depressions (	F8)			unless dis	turbed or problematic.
Postriativa	Lover (if present);							
	Layer (if present):							
Type:			-					
Depth	(inches):		_		Hyd	ric Soil	Present? Y	′es <u>X</u> No
Remarks:								
itemarks.								
HYDROL	OGY							
	vdrology Indicators:							
Primary In	dicators (minimum of on	e required;	check all that apply)			_	Secondary	Indicators (2 or more required)
X Surfac	e Water (A1)		Water-Stained Le	aves (B9) (	except M	LRA	Water-	Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4E		•			and 4B)
X Satura			Salt Crust (B11)	-,				ge Patterns (B10)
	Marks (B1)		Aquatic Invertebra	ates (B13)				ason Water Table (C2)
	ent Deposits (B2)			. ,				
	• • • •		Hydrogen Sulfide	. ,	Linia a Da			tion Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	-	-	bots ( $C3$	· · · · · · · · · · · · · · · · · · ·	prphic Position (D2)
	Mat or Crust (B4)		Presence of Redu		,			v Aquitard (D3)
Iron D	eposits (B5)		Recent Iron Redu		``	,		eutral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or Stress	ed Plants (E	01) ( <b>LRR</b>	<b>A</b> )		Ant Mounds (D6) (LRR A)
Inunda	ation Visible on Aerial Im	agery(B7)	Other (Explain in	Remarks)			Frost-H	leave Hummocks (D7)
Sparse	ely Vegetated Concave S	Surface (B8	)					
Field Obs	ervations:							
	ervations: /ater Present? Yes	X NI.	Donth /las	sheel.	,			
					<u> </u>			
Saturation	_	X No	Depth (Inc	cnes):		wetla	nd Hydrology F	Present? Yes <u>X</u> No
	capillary fringe)					、 ·-		
Describe I	Recorded Data (stream g	gauge, mon	itoring well, aerial phot	os, previous	s inspection	ons), if a	available	
Remarks:								

Project/Site: Newpo	Project/Site: Newport Municipal Airport				City/County: City of Newport				Sampling Date	e: 28-M	ay-2019	
Applicant/Owner:	City of Newp	ort					State:	OR	Sampling Poir	nt: S	P30	
Investigator(s): Jeff	Section	on, Tow	nship, Rang	ge: Sectio	on 29, T	ownship 11 S, R	Range 11 S					
Landform (hillslope,	terrace, etc.)	terrace		Local re	elief (co	ncave, conv	/ex, none):	convex	S	Slope (%):	2	
Subregion (LRR):	A2 - Willame	ette Valley	Lat: 44	4.566951			Long: -12	4.05981	8 D	atum: NAD	83	
Soil Map Unit Name	: 42C - Nels	scott loam, 3 to 12 p	percent slope:	S			NW	I classif	ication: None			
Are climatic / hydrole	ogic conditior	ns on the site typica	I for this time	of year?	Yes	No	X (If no	o, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significant	tly disturbed	?	Are "Norm	al Circums	tances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally p	problematic?		(If needeo	l, explain ar	ny answ	ers in Remarks.	)		

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

Hydrophytic Vegetation Present?	Yes	No	Х			
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area		
Netland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No

Remarks:

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

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Profile Description: (Describe to the depth Depth Matrix	needed to document the indicator or conf Redox Features	m the absence of indicators.)	
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Texture Remarks	
0-16 10 YR 3/4		Silt loam	
1			
¹ Type: C=Concentration, D=Depletion, RM=R Hydric Soil Indicators: (Applicable to all LR		Grains. ² Location: PL=Pore Lining, M= Indicators for Problematic Hydric Soi	
	Condu Daday (SE)	2 or Music (A40)	
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)	2 cm Muck (A10) Red Parent Material (TF2)	
		——————————————————————————————————————	
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLR/	,	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Other (Explain in Remarks)	
Depleted Below Dark Surface (A11)		³ Indicators of hydrophytic vegetation and	-1
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	wetland hydrology must be present,	
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.	
Restrictive Layer (if present):			
Type: Depth (inches):		ria Sail Brasant? Vas No V	
		ric Soil Present? Yes <u>No X</u>	_
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required;	check all that apply)	Secondary Indicators (2 or more rec	quired)
Surface Water (A1)	Water-Stained Leaves (B9) (except M		· · · · ·
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)	,_,
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)	
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imag	gery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living R	ots (C3) Geomorphic Position (D2)	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (	· — · · · ·	
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR		<b>A</b> )
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)	
Sparsely Vegetated Concave Surface (B8	)		
Field Observations:			
	No X Depth (Inches): NA		
	No X Depth (Inches): >16 No X Depth (Inches): >16	Wotland Hydrology Procent?	
	No X Depth (Inches): >16	Wetland Hydrology Present? Yes N	lo <u>X</u>
(includes capillary fringe) Describe Recorded Data (stream gauge, mon	toring well, aerial photos, previous inspection	s), if available:	
Remarks:			

Project/Site: Newpor	Project/Site: Newport Municipal Airport			City/County: City of Newport				Sampling Dat	e: 28-Ma	28-May-2019	
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poi	nt: SF	P31	
Investigator(s): Jeff I	Section, Township, Range: Section 29, Town			29, Town	nship 11 S, Range 11 S						
Landform (hillslope,	Local relief (co	oncave, convex	, none):	none	9	Slope (%):	1				
Subregion (LRR):	A2 - Willa	amette Valley	8979 Long: -124.060151			.060151	Datum: NAD83				
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slopes			NWI	classificat	ion: None			
Are climatic / hydrolo	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(If no,	explain in	Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumsta	ances" pre	sent? Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain any	answers	in Remarks.)			

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x
Remarks:							

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	<b>Dominance Test worksheet:</b> Number of Dominant Species	
1. Pinus contorta	20	1	FAC	That Are OBL, FACW, or FAC:	2 (A)
2. Alnus rubra	5		FAC		(,
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	25	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	30	1	FACU	That Are OBL, FACW, or FAC:	50.00 (A/B)
2. Rubus spectabilis	10		FAC		
3. Alnus rubra	10	1	FAC	Prevalence Index worksheet	:
4. Cytisus scoparius	20	1	NL	Total % Cover of:	Multiply by:
5				OBL species	x 1=
	70	= Total Cover		FACW species	x 2=
Herb Stratum (Plot size: 5' R)				FAC species 45	x 3= 135
1				FACU species 30	x 4= 120
2.				UPL species 20	x 5= 100
3.				Column Totals: 95 (A	A) 355 (B)
4.					
5.				Prevalence Index = B/A =	<u>3.74</u>
6.				Hydrophytic Vegetation India	ators:
7.				1- Rapid Test For Hydroph	vtic Vegetation
8.				2- Dominance Test is >50%	, 0
9.				3- Prevalence Index is ≤3.0	) ¹
10.				4- Morphological Adaptatio	ns ¹ (Provide supporting
11. Dandelion and crab grass 20 each				data in Remarks or on a	separate sheet)
		= Total Cover		5- Wetland Non-Vascular F	'lants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic	Vegetation ¹ (Explain)
1. Rubus armeniacus	10		FAC	¹ Indicators of hydric soil and v	vetland hydrology must
2.				be present, unless disturbed of	or problematic.
	10	= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 100				Vegetation Yes	No X
				Present?	
Remarks:				4	

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Sampling Point:

SP31

Profile Description: (Describe to the depth		or confirm the	e absence of indicators.)				
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) %	Type ¹ Loc ²	Texture Remarks				
0-16 10 YR 3/4			Silt loam				
¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all LF		ted Sand Grain	s. ² Location: PL=Pore Lining, Indicators for Problematic Hydric So				
	•		-				
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (S5) Stripped Matrix (S6)		2 cm Muck (A10) Red Parent Material (TF2)				
Black Histic (A3)	Loamy Mucky Mineral (F1) (except	MIRA 1)	Very Shallow Dark Surface (TF1)	2)			
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)	_)			
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)						
Thick Dark Surface (A12)	Redox Dark Surface (F6)		³ Indicators of hydrophytic vegetation ar	nd			
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		wetland hydrology must be prese	ent,			
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbed or problematic.				
Restrictive Layer (if present):							
Type:	_						
Depth (inches):	_	Hydric Soil	Present? Yes No	x			
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:	abook all that apply)		Secondary Indicators (2 or more	required)			
Primary Indicators (minimum of one required;	Water-Stained Leaves (B9) (ex		Secondary Indicators (2 or more	required)			
Surface Water (A1) High Water Table (A2)	1, 2, 4A, and 4B)		Water-Stained Leaves (B9) (I 4A, and 4B)				
Saturation (A3)	Salt Crust (B11)			WLRA 1, 2,			
Water Marks (B1)			Drainage Patterns (B10)	MLRA 1, 2,			
	Aquatic Invertebrates (B13)		Drainage Patterns (B10)Dry-Season Water Table (C2				
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Dry-Season Water Table (C2 Saturation Visible on Aerial Ir	)			
Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li	ving Roots (C3	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2)	)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4)		Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3)	)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	Soils (C6)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	) nagery (C9)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4)	Soils (C6)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3)	) nagery (C9) R A)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1 Other (Explain in Remarks)	Soils (C6)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) ( <b>LR</b>	) nagery (C9) R A)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1 Other (Explain in Remarks)	Soils (C6)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) ( <b>LR</b>	) nagery (C9) R A)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) 0 X Depth (Inches): NA	Soils (C6)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) ( <b>LR</b>	) nagery (C9) R A)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N	Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Li     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Stunted or Stressed Plants (D1     Other (Explain in Remarks)  o X Depth (Inches): NA o X Depth (Inches): >16	Soils (C6) (LRR A)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) ( <b>LR</b> Frost-Heave Hummocks (D7)	) nagery (C9) R A)			
Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         N	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Li Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks) 0 X Depth (Inches): NA	Soils (C6) (LRR A)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) ( <b>LR</b>	) nagery (C9) R A)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Li     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Stunted or Stressed Plants (D1)     Other (Explain in Remarks)      O     X Depth (Inches): NA     O X Depth (Inches): >16     O X Depth (Inches): >16	Soils (C6) (LRR A)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LR Frost-Heave Hummocks (D7)	) nagery (C9) R A)			
Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         N	Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Li     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Stunted or Stressed Plants (D1)     Other (Explain in Remarks)      O     X Depth (Inches): NA     O X Depth (Inches): >16     O X Depth (Inches): >16	Soils (C6) (LRR A)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LR Frost-Heave Hummocks (D7)	) nagery (C9) R A)			
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres along Li     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled     Stunted or Stressed Plants (D1)     Other (Explain in Remarks)      O     X Depth (Inches): NA     O X Depth (Inches): >16     O X Depth (Inches): >16	Soils (C6) (LRR A)	Dry-Season Water Table (C2 Saturation Visible on Aerial Ir Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LR Frost-Heave Hummocks (D7)	) nagery (C9) R A)			

Project/Site: Newpo	roject/Site: Newport Municipal Airport			City/County	City/County: City of Newport			Sampling Date	: 28-Ma	y-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poin	t: SF	32
Investigator(s): Jeff Barna, PWS and Luke Johnson				Section, To	wnship, Range	: Sectio	n 29, T	ownship 11 S, Ra	ange 11 S	
Landform (hillslope,	terrace, e	tc.): terrace	Local relief (c	concave, conve	x, none):	none	SI	lope (%):	1	
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	4.5932943534		_ong: -124	4.05621	4897 Da	atum: NAD8	3
Soil Map Unit Name	: 42C - N	Nelscott loam, 3 to 12	percent slop	bes		NW	l classif	ication: None		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this tim	ne of year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significan	tly disturbed?	Are "Norma	l Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	problematic?	(If needed,	explain ar	iy answ	ers in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х	
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area
Wetland Hydrology Present?	Yes	No	Х	within a Wetland? Yes <u>No X</u>
Remarks:				

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

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Sampling Point:

SP32

	cription: (Describe to	o the depth			or or cor	nfirm the	e absence of ir	dicators.)
Depth	Matrix		Red	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
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	
	. <u> </u>							
¹ Type: C=0	Concentration, D=Deple	etion, RM=R	educed Matrix, CS=C	overed or Co	bated Sa	nd Grain	ns. ² Lo	ocation: PL=Pore Lining, M=Matr
	Indicators: (Applicat							r Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Redox (S5)				2 cm Muc	k (A10)
Histic E	pipedon (A2)		Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black H	listic (A3)		Loamy Mucky Miner	al (F1) <b>(exce</b>	pt MLRA	(1)	Very Shal	low Dark Surface (TF12)
Hydrog	en Sulfide (A4)		Loamy Gleyed Matrix				Other (Ex	plain in Remarks)
	ed Below Dark Surface	(A11)	Depleted Matrix (F3)					
Thick D	ark Surface (A12)		Redox Dark Surface	(F6)			³ Indicators of	hydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland h	ydrology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dis	turbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (	inches):				Hyd	Iric Soil	Present?	Yes No X
Demenden								
Remarks:								
HYDROLO	JGY							
Wetland Hy	drology Indicators:							
Primary Inc	licators (minimum of or	ne required;	check all that apply)			_	Secondar	y Indicators (2 or more required)
Surface	e Water (A1)		Water-Stained Le	eaves (B9) ( <b>e</b>	xcept M	LRA	Water-	Stained Leaves (B9) (MLRA 1, 2
High W	ater Table (A2)		1, 2, 4A, and 4	В)			4A,	and 4B)
Saturat	ion (A3)		Salt Crust (B11)				Draina	ge Patterns (B10)
Water I	Marks (B1)		Aquatic Invertebr	ates (B13)			Dry-Se	eason Water Table (C2)
Sedime	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Satura	tion Visible on Aerial Imagery (C
	eposits (B3)		Oxidized Rhizosp	•	•	oots (C3	·	orphic Position (D2)
·	lat or Crust (B4)		Presence of Red		,			w Aquitard (D3)
	posits (B5)		Recent Iron Redu		•	,		leutral Test (D5)
	e Soil Cracks (B6)	(D7)	Stunted or Stress		1) ( <b>LRR</b>	<b>A</b> )		Ant Mounds (D6) (LRR A)
	tion Visible on Aerial Im	0,000	Other (Explain in	Remarks)				Heave Hummocks (D7)
Sparse	ly Vegetated Concave	Sunace (B8)						
Field Obse								
	ater Present? Yes	No		· · · · · · · · · · · · · · · · · · ·				
Water Tabl	-	No		· · · · · · · · · · · · · · · · · · ·				
Saturation	-	No	X Depth (In	ches): >10	Ċ.	Wetla	nd Hydrology	Present? Yes <u>No X</u>
	apillary fringe)					、 ··-		
Describe R	ecorded Data (stream	gauge, moni	toring well, aerial pho	tos, previous	inspecti	ons), if a	avallable	
Remarks:								
JS Army Corps						144		Valleys, and Coast - Version 2.0

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, Townshi	ip, Range: Section 29, To	wnship 11 S, Range	11 S	
Landform (hillslope, terrace, etc.): hillslope	Local relief (concav	ve, convex, none): none	Slope (S	%): 1	
Subregion (LRR): A2 - Willamette Valley Lat: 44.	5933214363	Long: -124.05622	1006 Datum:	NAD83	
Soil Map Unit Name: 42C - Nelscott loam, 3 to 12 percent slope	S	NWI classifi	ication: None		
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes	No X (If no, explain	n in Remarks.)		
Are Vegetation Soil or Hydrology significantly	y disturbed? Ar	e "Normal Circumstances"	present' Yes X	No	
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If	needed, explain any answe	ers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map show	ving sampling po	oint locations, transe	ects, important f	eatures, etc.	
Hydrophytic Vegetation Present?         Yes         X         No           Hydric Soil Present?         Yes         X         No	Is the Sam	pled Area			
Wetland Hydrology Present? Yes x No	within a We		No		
Remarks:					
Recorded precipitation in previous months was belo wetland hydrology is contained within hour-glass dis	Ũ				
VEGETATION – Use scientific names of plants.					
Absolu Tree Stratum (Plot size: 30' R) % Covi		cator Dominance Test watus			
		That Are OBL, FAC	•	3 (A)	
1			, W, OI FAC	(A)	
3.		Total Number of Do	ominant		
4.		Species Across All		3 (B)	
·	= Total Cover	— I '			
Sapling/Shrub Stratum (Plot size: 30' R)		Percent of Dominar	nt Species		
1. rubus spectabilis 20	1 F/	AC That Are OBL, FAC	CW, or FAC: 100	0.00 (A/B)	
2.			· ·	. ,	
3.		Prevalence Index	worksheet:		
4		Total % Cover	of: Multip	ly by:	
5		OBL species	x 1=		
20	= Total Cover	FACW species	x 2=		
Herb Stratum (Plot size: 5' R)		FAC species	x 3=		
1. Blechnum spicant 5		AC FACU species	x 4=		
2. carex obnupta 30		BL UPL species	x 5=		
3. Lysichiton americanus 80	<u> </u>	BL Column Totals:	(A)	(B)	
4 5		Prevalence In	dex = B/A = 0	)	
6.			etation Indicators:		
7.			For Hydrophytic Veget	tation	
8.		X 2- Dominance	, , , , ,		
9.		3- Prevalence			
10.		4- Morphologic	cal Adaptations ¹ (Prov	ide supporting	
11.			harks or on a separate		
115	= Total Cover		n-Vascular Plants ¹		
Woody Vine Stratum (Plot size: 30' R)			Hydrophytic Vegetati		
1			Iric soil and wetland hy		
2		be present, unles	s disturbed or problen	natic.	
	= Total Cover	Hydrophytic			
% Bare Ground in Herb Stratum		Vegetation	Yes X	No	
		Present?			
Remarks:					

US Army Corps of Engineers

	cription: (Describe to Matrix	the depth		t <b>the indicat</b> ox Features	or or cor	nfirm the	e absence of in	dicators.)
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10 YR 4/2	90	10 YR 3/6	10	C	M	Silt loam	Remarks
4-16	10 YR 4/2	80	10 YR 3/6	20	С	М	Silt loam	
1							2.	
	Concentration, D=Deple Indicators: (Applicabl				bated Sai	nd Grain		cation: PL=Pore Lining, M=Matr Problematic Hydric Soils ³ :
							2 om Muel	(410)
Histoso	Epipedon (A2)		Sandy Redox (S5) Stripped Matrix (S6)				2 cm Muck	t Material (TF2)
	Histic (A3)	_	Loamy Mucky Miner			1)		ow Dark Surface (TF12)
	len Sulfide (A4)		Loamy Gleyed Matrix			)		plain in Remarks)
	ed Below Dark Surface (	(A11) X	Depleted Matrix (F3)					
	Dark Surface (A12)	<u>, , , , , , , , , , , , , , , , , , , </u>	Redox Dark Surface				3Indicators of h	ydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfa	. ,				drology must be present,
	Gleyed Matrix (S4)		Redox Depressions				-	urbed or problematic.
				(				F
Restrictive	Layer (if present):							
Type:	(inches);				Lbre	Iria Cail	Brocont? V	
Depth	(inches):		-		пус		Present? Y	es <u>X</u> No
Remarks:								
HYDROLO	DGY							
Wetland Hv	drology Indicators:							
	dicators (minimum of on	e required;	check all that apply)				Secondary	Indicators (2 or more required)
	e Water (A1)		Water-Stained Le	eaves (B9) (e	except M	_ LRA		Stained Leaves (B9) (MLRA 1, 2,
	/ater Table (A2)		1, 2, 4A, and 4					and 4B)
X Saturat			Salt Crust (B11)				Drainag	ge Patterns (B10)
X Water	Marks (B1)		Aquatic Invertebr	ates (B13)			Dry-Sea	ason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide	. ,				ion Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	-	-	oots (C3)		rphic Position (D2)
	lat or Crust (B4)		Presence of Red		,			/ Aquitard (D3)
	eposits (B5) e Soil Cracks (B6)		Recent Iron Redu Stunted or Stress		•	,		eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
	tion Visible on Aerial Im	agery(R7)	Other (Explain in			<b>A</b> )		eave Hummocks (D7)
	ly Vegetated Concave S			(Cinano)				
<u> </u>	, ,							
Field Obse Surface W		X No	Depth (In	ches)· 4				
		X No	· · ·	· · · · · · · · · · · · · · · · · · ·	_			
Saturation		X No	· · ·	· · · · · · · · · · · · · · · · · · ·		Wetla	nd Hydrology P	Present? Yes x No
	apillary fringe)		· ``					
Describe R	ecorded Data (stream g	jauge, moni	toring well, aerial pho	tos, previous	inspecti	ons), if a	vailable	
Damard	weather at here to be a state		della la sua sul della de	han all i				
Remarks:	wetland hydrology is c	ontained wi	thin hour-glass disc sl	naped basin				

Project/Site: Newpor	roject/Site: Newport Municipal Airport				City/County: City of Newport			Sampling Dat	te: 28-1	28-May-2019		
Applicant/Owner:	City of No	ewport		-		St	ate:	OR	Sampling Poi	int:	SP34	
Investigator(s): Jeff I	Section, Township, Range: Section 29, Township 11 S, Range					Range 11 S	6					
Landform (hillslope,	terrace, e	Local relief (	Local relief (concave, convex, none): none			Slope (%): 1						
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.59	94154		Long	j: -124	.05530	6 I	Datum: NA	D83	
Soil Map Unit Name	: 42C - I	Nelscott loam, 3 to 12	percent slopes				NWI	classif	ication: None			
Are climatic / hydrolo	ogic cond	itions on the site typic	al for this time o	of year? Yes	s No	Х	(If no,	explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly of	disturbed?	Are "Norn	nal Ciro	cumsta	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally prot	blematic?	(If needed	d, expla	ain ang	y answe	ers in Remarks	i.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	X
Pomarka: Popardad provinitation in	nrovious mo	nthe wor	bolow porp	al range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	olants.				
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Tsuga heterophylla	10		FACU	That Are OBL, FACW, or FAC:	2 (A)
2. Picea sitchensis	40	1	FAC	-	
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	50	= Total Cover		-	
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	50	1	FACU	That Are OBL, FACW, or FAC:	50.00 (A/B)
2. Menziesia ferruginea	10		FACU	-	
3				Prevalence Index worksheet:	
4				Total % Cover of:	Multiply by:
5				OBL species x	1=
	60	= Total Cover		FACW species x	2=
Herb Stratum (Plot size: 5' R)				FAC species x	3=
1. Polystichum munitum	10	1	FACU	FACU species x	4=
2. Blechnum spicant	10	1	FAC	UPL species x	5=
3				Column Totals: (A)	(B)
4.					
5				Prevalence Index = B/A =	<u>0</u>
6				Hydrophytic Vegetation Indica	tors:
7				1- Rapid Test For Hydrophyt	ic Vegetation
8	_			2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations	s ¹ (Provide supporting
11.				data in Remarks or on a s	eparate sheet)
	20	= Total Cover		5- Wetland Non-Vascular Pla	ants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic \	/egetation ¹ (Explain)
1				¹ Indicators of hydric soil and we	tland hydrology must
2.				be present, unless disturbed or	problematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 30				Vegetation Yes	No X
				Present?	
Remarks:				•	

US Army Corps of Engineers

Sampling Point:

SP34

Profile Description: (Describe to the dept	h needed to document the indicator or confirm th	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10 YR 3/3		Silt loam
<u> </u>		·
<u> </u>		
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soil	I Present? Yes No X
	_	
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	t check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2) Saturation (A3)	<b>1, 2, 4A, and 4B)</b> Salt Crust (B11)	<b>4A, and 4B)</b> Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B	8)	
Field Observations:		
	No X Depth (Inches): NA	
	No_XDepth (Inches): >16	
	$\mathbf{N} = \mathbf{N}$	and Hydrology Present? Yes No X
	No X Depth (Inches): >16 Wetla	
(includes capillary fringe)		
(includes capillary fringe)	nitoring well, aerial photos, previous inspections), if a	
(includes capillary fringe)		

Project/Site: Newpor	rt Municip	al Airport		City/County:	City of Nev	vport			Sampling Dat	te: 28-l	May-2019	
Applicant/Owner:	City of N	ewport				S	state:	OR	Sampling Poi	nt:	SP35	
Investigator(s): Jeff I	Barna, P\	VS and Luke Johnsor	1	Section, To	wnship, Ran	ge:	Section	n 29, To	ownship 11 S, I	Range 11 S	5	
Landform (hillslope,	terrace, e	etc.): terrace		Local relief (c	oncave, con	vex, n	one): r	none		Slope (%):	1	
Subregion (LRR):	A2 - Wil	amette Valley	Lat: 44.59	1993		Lon	g: -124	.05764	8 I	Datum: NA	D83	
Soil Map Unit Name	: 42C - I	Nelscott loam, 3 to 12	percent slopes				NWI	classif	ication: None			
Are climatic / hydrolo	ogic cond	itions on the site typic	al for this time of	f year? Yes	No	Х	(lf no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Norr	nal Ci	rcumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needeo	d, expl	lain an	y answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	nthe wor	bolow po	rmal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	85	1	FACU	That Are OBL, FACW, or FAC: 1	(A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
	85	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Sambucus racemosa	40	1	FACU	That Are OBL, FACW, or FAC: 25.0	00 (A/B)
2					
3.				Prevalence Index worksheet:	
4				Total % Cover of: Multiply	
5				OBL species x 1=	
	40	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Polystichum munitum	40	1	FACU	FACU species x 4=	
2. Athyrium cyclosorum	20	1	FAC	UPL species x 5=	
3				Column Totals:(A)	(B)
4					
5				Prevalence Index = $B/A = 0$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegeta	ation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is $\leq 3.0^1$	
10				4- Morphological Adaptations ¹ (Provid	de supporting
11				data in Remarks or on a separate	sheet)
	60	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetatio	
1				¹ Indicators of hydric soil and wetland hydric soil and wetland hydric soil and wetland hydric soil and wetland hydric solution hydric hydric solution hydric solution hydric hydric solutio	drology must
2				be present, unless disturbed or problem	atic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum					No X
				Present?	
Remarks:					
				-	

US Army Corps of Engineers

Sampling Point: SP35

00.2									
Profile De	scription: (Descri	be to the depth	needed to docume	nt the indicate	or or cor	nfirm the	e absence of ir	dicators.)	
Depth	Matr	ix	Re	dox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-8	10 YR 2/2	100		70	туре	LOC	Sandy loam	quite a bit of sand	—
8-14	10 YR 2/2	100		······································			loam	quito a bit of barra	—
14-16	10 YR 4/2	90	10 YR 3/6	5			sandy loam		—
14 10	10 11( 4/2		10 11( 0/0				Sandy Ioann		—
				······································					—
									—
									—
									—
	Concentration D-	Doplation PM-5	Reduced Matrix, CS=		atod Sa	ad Grain	2	ocation: PL=Pore Lining, M=Ma	otr
		•	Rs, unless otherwis		aleu Sal	iu Grain		r Problematic Hydric Soils ³ :	20
Hyunc Son	i indicators. (App		rs, unless otherwis	se noteu.)			mulcators to	r Froblematic Hyuric Solis".	
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muc	k (A10)	
Histic	Epipedon (A2)		Stripped Matrix (S6	)			Red Pare	nt Material (TF2)	
Black	Histic (A3)		Loamy Mucky Mine	eral (F1) <b>(exce</b>	pt MLRA	. 1)	Very Shal	low Dark Surface (TF12)	
Hydro	gen Sulfide (A4)		Loamy Gleyed Mat	rix (F2)			Other (Ex	plain in Remarks)	
Deplet	ted Below Dark Sur	face (A11)	Depleted Matrix (F3	3)					
Thick	Dark Surface (A12)		Redox Dark Surface	e (F6)			³ Indicators of	hydrophytic vegetation and	
Sandy	Mucky Mineral (S	I) <u> </u>	Depleted Dark Surf	ace (F7)			wetland h	ydrology must be present,	
Sandy	Gleyed Matrix (S4	)	Redox Depressions	s (F8)			unless dis	turbed or problematic.	
			_						
Restrictive	Layer (if present)	:							
Type:									
Depth	(inches):		-		Hyd	Iric Soil	Present?	res No X	
Remarks:			_						
Remarks.									
HYDROL	OGY								
Wetland H	ydrology Indicato	·s·							
			check all that apply)				Secondar	y Indicators (2 or more required	d)
		or one required,			veent M	_			
	e Water (A1)		Water-Stained L		хсерт м	LRA		Stained Leaves (B9) (MLRA 1	, <b>Z</b> ,
	Vater Table (A2) ation (A3)		1, 2, 4A, and 4 Salt Crust (B11)	•				and 4B) ge Patterns (B10)	
	Marks (B1)		Aquatic Invertet					eason Water Table (C2)	
	ient Deposits (B2)		Hydrogen Sulfid					tion Visible on Aerial Imagery (	
	eposits (B3)		Oxidized Rhizos		l iving Re	nots (C3)		orphic Position (D2)	(03)
	Mat or Crust (B4)		Presence of Red		-	003 (00)		w Aquitard (D3)	
	eposits (B5)		Recent Iron Rec		,	<b>2</b> 6)		eutral Test (D5)	
	ce Soil Cracks (B6)		Stunted or Stres		•	,		Ant Mounds (D6) (LRR A)	
	ation Visible on Aer	ial Imagerv(B7)	Other (Explain in		.) (	)		leave Hummocks (D7)	
	ely Vegetated Cond	0,,,,,		,			_	()	
·		, , , , , , , , , , , , , , , , , , ,	,						
	ervations:								
		és N	· ·						
		res N							,
	Present?	'es <u> </u>	o <u>X</u> Depth (I	nches): >10	<u> </u>	wetla	nd Hydrology	Present? Yes <u>No X</u>	<u>`                                    </u>
	a a mill a militar a h								
(includes o	capillary fringe)		اللاحاد المبيد ممامعا	ataa arrite	in or	ama) !f	vallable		
(includes o		eam gauge, mon	itoring well, aerial ph	otos, previous	inspecti	ons), if a	vailable		
(includes o Describe F		eam gauge, mon	itoring well, aerial ph	otos, previous	inspecti	ons), if a	vailable		
(includes o		eam gauge, mor	itoring well, aerial ph	otos, previous	inspecti	ons), if a	wailable:		

Project/Site: Newport Municipal Airport		City/County:	City of Newpo	rt		Sampling Date	e: 28-May	/-2019		
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poir	nt: SP	36
Investigator(s): Jeff I	Barna, PW	S and Luke Johnsor		Section, Tow	nship, Range:	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	ncave, conve	, none):	none	S	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.592	2006	L	ong: <u>-12</u> 4	1.05774	2 <u></u> C	Datum: NAD8	3
Soil Map Unit Name	: 42C - N	lelscott loam, 3 to 12	percent slopes			NW	l classif	ication: None		
Are climatic / hydrold	ogic condit	tions on the site typic	al for this time of	f year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	х	No	within a Wetland?	Yes	Х	No
Pemarks: Recorded precipitation in		mont	he was below porr	nal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum       (Plot size:       30' R)       % Cover       Species?       Status       Number of Dominant Species         1.       That Are OBL, FACW, or FAC:       3	(A)
1. That Are OBL, FACW, or FAC: 3	(A)
	(~)
2	
3. Total Number of Dominant	
4. Species Across All Strata: 3	(B)
= Total Cover	
Sapling/Shrub Stratum (Plot size: 30' R) Percent of Dominant Species	
1. rubus spectabilis         20         1         FAC         That Are OBL, FACW, or FAC:         100.00	(A/B)
2	
3. Prevalence Index worksheet:	
4. Total % Cover of: Multiply by:	
5 OBL species x 1=	
20 = Total Cover FACW species x 2=	
Herb Stratum     (Plot size:     5'     R)       FAC species     x 3=	
1. Blechnum spicant         5         FAC         FACU species         x 4=	
2. carex obnupta         30         1         OBL         UPL species         x 5=	
3. Lysichiton americanus 80 1 OBL Column Totals: (A)	(B)
4	
5. Prevalence Index = B/A = <u>0</u>	
6. Hydrophytic Vegetation Indicators:	
71- Rapid Test For Hydrophytic Vegetation	
8. X 2- Dominance Test is >50%	
9	
10 4- Morphological Adaptations ¹ (Provide sup	porting
11. data in Remarks or on a separate sheet)	5
115 = Total Cover 5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R) 6- Problematic Hydrophytic Vegetation ¹ (Exp	lain)
1 ¹ Indicators of hydric soil and wetland hydrolog	must
2. be present, unless disturbed or problematic.	maor
% Bare Ground in Herb Stratum Vegetation Yes X No Present?	
Remarks:	

US Army Corps of Engineers

Sampling Point:

SP36

Profile Description: (Describe to the de	oth needed to document th	ne indicator	or con	firm the	e absence of in	dicators.)
Depth Matrix	Redox	Features				
(inches) Color (moist) %	Color (moist)		Type ¹	Loc ²	Texture	Remarks
0-4 10 YR 4/2 90	10 YR 3/6	10	<u>C</u>	<u>M</u>	Silt loam	
4-16 10 YR 4/2 80	10 YR 3/6	20	С	М	Silt loam	
			<u> </u>			
¹ Type: C=Concentration, D=Depletion, RM	/I=Reduced Matrix, CS=Cov	vered or Coa	ted San	d Grain	s. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise n	oted.)			Indicators for	Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muc	k (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Parer	nt Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral	(F1) <b>(excep</b>	t MLRA	1)	Very Shall	ow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (	F2)			Other (Exp	plain in Remarks)
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)					
Thick Dark Surface (A12)	Redox Dark Surface (F	6)				hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface	(F7)			wetland hy	drology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8	3)			unless dis	turbed or problematic.
Restrictive Layer (if present):						
Туре:						
Depth (inches):			Hyd	ric Soil	Present?	′es <u>X</u> No
Remarks:						
HYDROLOGY						
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required)	ed; check all that apply)				Secondary	/ Indicators (2 or more required)
Wetland Hydrology Indicators:	ed; check all that apply) Water-Stained Leav	/es (B9) ( <b>ex</b>	cept ML			/ Indicators (2 or more required) Stained Leaves (B9) ( <b>MLRA 1, 2,</b>
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir		/es (B9) ( <b>ex</b>	cept ML	_ RA	Water-	· · · · ·
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir X Surface Water (A1)	Water-Stained Leav	ves (B9) ( <b>ex</b>	cept ML	_ .RA	Water- 4A,	Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one requir X Surface Water (A1) X High Water Table (A2)	Water-Stained Leav <b>1, 2, 4A, and 4B)</b> Salt Crust (B11) Aquatic Invertebrate	es (B13)	cept ML	- .RA	Water- 4 <b>A</b> , Drainag Dry-Se	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) ason Water Table (C2)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)	Water-Stained Leav <b>1, 2, 4A, and 4B)</b> Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O	es (B13) dor (C1)	·		Water- 4A, Draina Dry-Se Satura	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe	es (B13) dor (C1) eres along Li	·		Water- 4A, Draina Dry-Se Saturat	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) rphic Position (D2)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce	es (B13) dor (C1) eres along Li ed Iron (C4)	iving Ro	ots (C3)	Water- 4 <b>A</b> , Drainaa Dry-Se Saturaa ) Geomo Shallov	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled	iving Ro Soils (C	ots (C3)	Water- 4A, Drainae Dry-Se Satura ) Geomo Shallov FAC-N	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressed	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled I Plants (D1	iving Ro Soils (C	ots (C3)	Water- 4 <b>A</b> , Drainag Dry-Se Satural Geomo Shallov FAC-N Raised	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressec 7) Other (Explain in Reference)	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled I Plants (D1	iving Ro Soils (C	ots (C3)	Water- 4 <b>A</b> , Drainag Dry-Se Satural Geomo Shallov FAC-N Raised	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required in the second sec	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressec 7) Other (Explain in Reference)	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled I Plants (D1	iving Ro Soils (C	ots (C3)	Water- 4 <b>A</b> , Drainag Dry-Se Satural Geomo Shallov FAC-N Raised	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required in the second sec	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressec 7) Other (Explain in Reference)	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled I Plants (D1 emarks)	iving Ro Soils (C	ots (C3)	Water- 4 <b>A</b> , Drainag Dry-Se Satural Geomo Shallov FAC-N Raised	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> )
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required in the second secon	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressed 7) Other (Explain in Re (B8) No Depth (Inch-	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled I Plants (D1 emarks) es): 4 es): 4	iving Ro Soils (C	ots (C3) 6) <b>A</b> )	Water- 4 <b>A</b> , Drainae Dry-Se Satura Geomo Shallov FAC-N Raised Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) ition Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required in the second	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressed 7) Other (Explain in Re (B8)	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled I Plants (D1 emarks) es): 4 es): 4	iving Ro Soils (C	ots (C3) 6) <b>A</b> )	Water- 4 <b>A</b> , Drainag Dry-Se Satural Geomo Shallov FAC-N Raised	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) ition Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)       Drift Deposits (B3)         Algal Mat or Crust (B4)       Iron Deposits (B5)         Surface Soil Cracks (B6)       Inundation Visible on Aerial Imagery(B         Sparsely Vegetated Concave Surface       Field Observations:         Surface Water Present?       Yes         X       Water Table Present?       Yes         Saturation Present?       Yes       X         (includes capillary fringe)       Includes capillary fringe)	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stressec 7) Other (Explain in Re (B8) No Depth (Inch No Depth (Inch	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled d Plants (D1 emarks) es):	iving Ro Soils (C ) (LRR /	ots (C3) 6) A) Wetla	Water- 4A, Drainag Dry-Se Saturai Shallov FAC-N Raised Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) ition Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)       Drift Deposits (B3)         Algal Mat or Crust (B4)       Iron Deposits (B5)         Surface Soil Cracks (B6)       Inundation Visible on Aerial Imagery(B         Sparsely Vegetated Concave Surface       Field Observations:         Surface Water Present?       Yes         X       Water Table Present?       Yes         Saturation Present?       Yes       X	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduct Recent Iron Reduct Stunted or Stressec 7) Other (Explain in Re (B8) No Depth (Inch No Depth (Inch	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled d Plants (D1 emarks) es):	iving Ro Soils (C ) (LRR /	ots (C3) 6) A) Wetla	Water- 4A, Drainag Dry-Se Saturai Shallov FAC-N Raised Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) ition Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         X       Water Marks (B1)         Sediment Deposits (B2)       Drift Deposits (B3)         Algal Mat or Crust (B4)       Iron Deposits (B5)         Surface Soil Cracks (B6)       Inundation Visible on Aerial Imagery(B         Sparsely Vegetated Concave Surface       Field Observations:         Surface Water Present?       Yes         X       Water Table Present?       Yes         Saturation Present?       Yes       X         (includes capillary fringe)       Includes capillary fringe)	Water-Stained Leav 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reduct Stunted or Stressec 7) Other (Explain in Re (B8) No Depth (Inch No Depth (Inch No Depth (Inch	es (B13) dor (C1) eres along Li ed Iron (C4) ion in Tilled d Plants (D1 emarks) es):	iving Ro Soils (C ) (LRR /	ots (C3) 6) A) Wetla	Water- 4A, Drainag Dry-Se Saturai Shallov FAC-N Raised Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> <b>and 4B)</b> ge Patterns (B10) ason Water Table (C2) ition Visible on Aerial Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)

Project/Site: Newport Municipal Airport			City/Count	City/County: City of Newport			Sampling Dat	te: 28	3-May-2	019		
Applicant/Owner:	City of Ne	ewport					State:	OR	Sampling Poi	nt:	SP37	
Investigator(s): Jeff	Barna, PV	VS and Luke Johnsor	1	Section, T	ownship, Rar	nge:	Sectio	n 29, T	ownship 11 S, I	Range 11	S	
Landform (hillslope,	terrace, e	etc.): terrace		Local relief	(concave, cor	nvex,	none): I	none	:	Slope (%)	):	1
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.5	591325		Lo	ng: -124	.05834	2	Datum: <u>N</u>	AD83	
Soil Map Unit Name	: 42C - I	Nelscott loam, 3 to 12	percent slope	s			NWI	classif	ication: None			
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time	of year? Ye	s No	Х	(If no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly	/ disturbed?	Are "Nori	mal C	- ircumst	ances"	present' Yes	X N	0	
Are Vegetation	Soil	or Hydrology	naturally pr	oblematic?	(If neede	d, ex	plain an	y answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Pagardad proginitation in		onthe wor	bolownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

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

US Army Corps of Engineers

Sampling Point: SP37

Profile Description: (Describe to the dept	h needed to document the indicator or confirm the	e absence of indicators )						
Depth Matrix	Redox Features							
		Texture Remarks						
(inches) Color (moist) % 0-16 10 YR 2/2	Color (moist) % Type ¹ Loc ²	Texture Remarks						
	Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr						
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :						
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)						
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)						
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)						
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)						
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	—						
Thick Dark Surface (A12)	3Indicators of hydrophytic vegetation and							
Sandy Mucky Mineral (S1)	wetland hydrology must be present,							
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.								
Restrictive Layer (if present):								
Туре:								
Depth (inches):	Hydric Soil	Present? Yes No X						
Remarks:								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one required	t check all that apply)	Secondary Indicators (2 or more required)						
	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,						
Surface Water (A1) High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)						
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)						
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)						
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)						
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3	B) Geomorphic Position (D2)						
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)						
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)						
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)						
Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface (E		Frost-Heave Hummocks (D7)						
	56)							
Field Observations:								
	No X Depth (Inches): NA							
	No         X         Depth (Inches):         >16           No         X         Depth (Inches):         >16         Wetla	and Hydrology Present? Voc No V						
	NO A DEDITIONEST ZIO VIENA	and Hydrology Present? Yes <u>No X</u>						
(includes capillary fringe)	nitoring well, aerial photos, previous inspections), if a	available						
(includes capillary fringe)		available						
(includes capillary fringe)		available						

Project/Site: Newport Municipal Airport			City/County:	City of Newpo	rt		Sampling Dat	e: 23-Sep	o-2019	
Applicant/Owner:	City of Ne	wport		-		State:	OR	Sampling Poir	nt: 10	)1
Investigator(s): Luke Johnson and Amanda Brophy				Section, Tow	nship, Range	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	ncave, conve	k, none):	none	S	Slope (%):	3
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.59	7722	l	ong: <u>-12</u> 4	1.04369	60 C	Datum: NAD8	3
Soil Map Unit Name	: 25E - L	int silt loam, 5 to 25 p	percent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	explain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Recorded precipitation in	nroviouo	mont		normal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

US Army Corps of Engineers

Sampling Point: 101

Profile Description: (Describe to the dep	th needed to document the indicator or confirm th	e absence of indicators.)
Depth Matrix	Redox Features	
		Tautura
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-18 10YR 2/1 100		Silt loam Very dark, no redox
1		2
	=Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all I	-RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Raday (SE)	2  om  Muck (A10)
	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
	I	
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric Soil	Present? Yes X No
Remarks:		
Remarko.		
HYDROLOGY		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
	d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		······································
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) X High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) X High Water Table (A2) X Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
X       High Water Table (A2)         X       Surface Mater (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
X       High Water Table (A2)         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
X       High Water Table (A2)         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
X       High Water Table (A2)         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
X       High Water Table (A2)         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       X         X       Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?	Water-Stated Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       X	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) O Other (Explain in Remarks) B8) No X Depth (Inches): NA No Depth (Inches): 7	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       X         Saturation Present?       Yes         X       X	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) O Other (Explain in Remarks) B8) No X Depth (Inches): NA No Depth (Inches): 7	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       Depth (Inches): <u>7</u> No       Depth (Inches): <u>4</u>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) O Other (Explain in Remarks) B8) No X Depth (Inches): NA No Depth (Inches): 7	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       Depth (Inches): <u>7</u> No       Depth (Inches): <u>4</u>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       Depth (Inches): <u>7</u> No       Depth (Inches): <u>4</u>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         X         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       Saturation Present?       Yes         Vincludes capillary fringe)       Describe Recorded Data (stream gauge, m	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       Depth (Inches): <u>7</u> No       Depth (Inches): <u>4</u>	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport			City/Cou	ity/County: City of Newport				Sampling Date	e: 23-Sep	o-2019	
Applicant/Owner:	City of Ne	wport				Sta	ate:	OR	Sampling Poir	nt: SP	102
Investigator(s): Luke Johnson and Amanda Brophy				Section	, Township, Ran	ge: Section 29, Township 11 S, Range 11 S					
Landform (hillslope,	terrace, et	c.): hillslope		Local relie	ef (concave, con	vex, nor	ne): <u>r</u>	none	S	Slope (%):	1
Subregion (LRR):	A2 - Willa	mette Valley	Lat:	44.597741		Long:	-124	.04359	D	Datum: NAD8	3
Soil Map Unit Name	: Lint silt	loam, 5 to 25 percen	t slopes				NWI	classif	ication: none		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this ti	me of year?	Yes No	Х (	(lf no,	explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	intly disturbed?	Are "Norn	nal Circi	umsta	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	/ problematic?	(If needed	d, explai	in ang	y answe	ers in Remarks.	)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Pagardad proginitation in		onthe wor	bolownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

# **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC: (A)
2.		<u> </u>		
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	5	1	FACU	That Are OBL, FACW, or FAC: (A/B)
2.				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	5	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Polystichum munitum	5	1	FACU	FACU species x 4=
2				UPL species x 5=
3				Column Totals:(A)(B)
4				
5				Prevalence Index = $B/A = 0$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	5	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 80				Vegetation Yes No X
				Present?
Remarks: mossy and leaf litter forest floor				

US Army Corps of Engineers

Sampling Point: SP102

Profile Description: (Describe to the dep	th needed to document the indicator or	confirm the	absence of indic	cators.)				
Depth Matrix	Redox Features			,				
(inches) Color (moist) %	Color (moist) % Typ	be ¹ Loc ²	Texture	Remarks				
0-14 5YR2.5/2 100			Sandy loam	Remarks				
0111 01112.0,2 100			Carlay Ioann					
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated	Sand Grains	s. ² Loca	tion: PL=Pore Lining, M=Matr				
Hydric Soil Indicators: (Applicable to all I	.RRs, unless otherwise noted.)		Indicators for P	roblematic Hydric Soils ³ :				
Histosol (A1)	Sandy Redox (S5)		2 cm Muck (	A10)				
Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent	Material (TF2)				
Black Histic (A3)	Loamy Mucky Mineral (F1) (except Mi	LRA 1)	Very Shallow	Dark Surface (TF12)				
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Expla	in in Remarks)				
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)							
Thick Dark Surface (A12)								
Sandy Mucky Mineral (S1)		wetland hydr	ology must be present,					
Sandy Gleyed Matrix (S4)	bed or problematic.							
Restrictive Layer (if present):								
Type: Log Depth (inches): 14		Hydric Soil I	Present? Yes	s No X				
Remarks: significant duff layer above soil.								
HYDROLOGY								
Wetland Hydrology Indicators:								
Primary Indicators (minimum of one require	d; check all that apply)		Secondary Ir	ndicators (2 or more required)				
Surface Water (A1)	Water-Stained Leaves (B9) (excep	ot MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,					
High Water Table (A2)	1, 2, 4A, and 4B)		4A, and 4B)					
Saturation (A3)	Salt Crust (B11)		Drainage Patterns (B10)					
Water Marks (B1)	Aquatic Invertebrates (B13)			on Water Table (C2)				
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)			NVisible on Aerial Imagery (C9)				
Drift Deposits (B3)	Oxidized Rhizospheres along Living	g Roots (C3)		hic Position (D2)				
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	. (00)		quitard (D3)				
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soi Stunted or Stressed Plants (D1) (L	. ,		tral Test (D5)				
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7		KK A)		nt Mounds (D6) ( <b>LRR A</b> ) ave Hummocks (D7)				
Sparsely Vegetated Concave Surface (								
	-,							
Field Observations:	No X Dopth (Inchas): NA							
	No X Depth (Inches): NA No X Depth (Inches):							
	No X Depth (Inches):	Wotlan	d Hydrology Pre	sent? Yes No X				
(includes capillary fringe)			a nyarology Ple					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous insp	ections), if av	vailable					
····· (······ 3.2-9-, ···	о <i>,</i> ,,, ,	-,,						
Remarks:								

Project/Site: Newport Municipal Airport				City/Co	City/County: City of Newport					Sampling Date:		23-Sep	o-2019	19
Applicant/Owner:	City of New	port					:	State:	OR	Sampling I	Point:	10	)3	
Investigator(s): Luke	e Johnson a	nd Amanda Brophy		Section	n, Towr	nship, Ran	ge:	Sectio	n 29, To	ownship 11 S	3, Ranç	ge 11 S		
Landform (hillslope,	terrace, etc	.): Depression		Local rel	ief (con	icave, con	vex,	none): (	Concav	е	Slop	e (%):	0	
Subregion (LRR):	A2 - Willam	ette Valley	Lat:	44.596161			Loi	ng: <u>-12</u> 4	.04598	4	Datu	m: NAD8	3	
Soil Map Unit Name	: Nelscott	loam, 3 to 12 perce	nt slopes					NW	classif	ication: non	e			
Are climatic / hydrol	ogic conditio	ons on the site typic	al for this t	ime of year?	Yes	No	Х	(lf no	, explai	n in Remark	s.)			
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?		Are "Norr	nal C	ircumst	ances"	present' Ye	s X	No		
Are Vegetation	Soil	or Hydrology	naturall	y problematic?		(If neede	d, exp	olain an	y answe	ers in Rema	rks.)			

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

Hydrophytic Vegetation Present?	Yes	N	0	Х				
Hydric Soil Present?	Yes	X N	0		Is the Sampled Area			
Wetland Hydrology Present?	Yes	X N	0		within a Wetland?	Yes	Х	No
Remarks: Recorded precipitation in		nonthe	Nach		al range			

Recorded precipitation in previous months was below normal range

# **VEGETATION – Use scientific names of plants.**

Tree Streture (Distaine) and D	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				
3		. <u> </u>		Total Number of Dominant
4				Species Across All Strata: 1 (B)
Sapling/Shrub Stratum (Plot size: 30' R)		= Total Cover		Percent of Dominant Species
1				That Are OBL, FACW, or FAC:(A/B)
2				Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species         x 1=
··		= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Hypochaeris radicata	2	1	FACU	FACU species x 4=
2				UPL species x 5=
				Column Totals: (A) (B)
1				
5				Prevalence Index = $B/A = 0$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	2	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks: feature appears to be stormwater/wastew	vater enhand	ced gravel trea	tement sys	tem

US Army Corps of Engineers

Sampling Point: 103

								· · ·
Profile De	scription: (Describ	e to the depth	needed to docun	nent the indicat	or or cor	nfirm the	e absence of indi	cators.)
Depth	Matrix			Redox Features				
Depth	IVIALITA			redux realules				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	Fill	80	5YR3/4	15	С	Μ	Sandy grave	
6-16	10YR 3/1	95	7.5YR 5/6	5	С	М	Sandy grave	
				_				
¹ Type: C	=Concentration, D=D	epletion, RM=	Reduced Matrix, C	S=Covered or C	oated Sa	nd Grain	ns. ² Loca	ation: PL=Pore Lining, M=Matr
Hydric Soi	Indicators: (Applie	cable to all LF	RRs, unless other	wise noted.)			Indicators for P	Problematic Hydric Soils ³ :
			,	,				
Histos	sol (A1)		Sandy Redox (S	5)			2 cm Muck (	A10)
Histic	Epipedon (A2)		Stripped Matrix (	S6)			Red Parent	Material (TF2)
		_	Loamy Mucky M	,		1		v Dark Surface (TF12)
	Histic (A3)	_			⊧pι wi∟κA	<b>N</b> 1)		
Hydro	gen Sulfide (A4)	_	Loamy Gleyed N	latrix (F2)			Other (Expla	iin in Remarks)
Deple	ted Below Dark Surfa	ace (A11)	Depleted Matrix	(F3)				
 Thick	Dark Surface (A12)		Redox Dark Surf	ace (F6)			Indicators of hy	drophytic vegetation and
	,	_						., .
	/ Mucky Mineral (S1)		_ Depleted Dark S	unace (F7)			-	rology must be present,
Sandy	/ Gleyed Matrix (S4)		Redox Depression	ons (F8)			unless distu	rbed or problematic.
Restrictive	e Layer (if present):							
	<b>,</b> , , , ,							
Type:	(inches):				Lluc	Iria Cail	Present? Yes	
Deptil	(inches).		_		пус		Flesent? Te:	s <u>X</u> No
Remarks:								
Remarks.								
	0.01							
HYDROL	UGT							
Wetland H	ydrology Indicators							
							<b>.</b>	
Primary In	ndicators (minimum o	f one required	; check all that app	ly)			Secondary I	ndicators (2 or more required)
Surfac	ce Water (A1)		Water-Staine	d Leaves (B9) (	except M	LRA	Water-St	ained Leaves (B9) (MLRA 1, 2,
X High \	Water Table (A2)		1, 2, 4A, an		-		4A, ai	nd 4B)
	ation (A3)		Salt Crust (B	,				Patterns (B10)
				•				
	r Marks (B1)		·	tebrates (B13)				on Water Table (C2)
Sedim	nent Deposits (B2)		Hydrogen Su	lfide Odor (C1)			Saturatio	n Visible on Aerial Imagery (C9)
X Drift D	Deposits (B3)		Oxidized Rhiz	cospheres along	Living Ro	oots (C3	) Geomorp	hic Position (D2)
Algal	Mat or Crust (B4)		Presence of I	Reduced Iron (C	4)		Shallow A	Aquitard (D3)
	Peposits (B5)			Reduction in Tille	,	26)		tral Test (D5)
	• • • •					,		( )
	ce Soil Cracks (B6)			ressed Plants (I	( <b>LRR</b>	A)		nt Mounds (D6) (LRR A)
	ation Visible on Aeria			n in Remarks)			Frost-Hea	ave Hummocks (D7)
Spars	ely Vegetated Conca	ve Surface (B	8)					
					I			
	servations:				.			
Surface V	Vater Present? Ye	s <u> </u>	lo <u>X</u> Depth	n (Inches): N	A			
Water Tal	ble Present? Ye	s X N	lo Depth	n (Inches): 6	5			
Saturation	n Present? Ye	s X N	lo 4 Depth	(Inches): 4	ļ	Wetla	nd Hydrology Pre	esent? Yes X No
	capillary fringe)						,	
•			oltoring well control	nhotoo maniferi	o inor esti	ono) :f -	wailabla	
Describe		im dande moi	nitoring well, aerial	priotos, previou	s inspecti	uns), if a	avallable	
	Recorded Data (Silea	in gaago, mo	÷					
	Recorded Data (Silea	in gaago, mo	-					
Remarks:	Recorded Data (strea	an gaago, no	-					
	Recorded Data (Silea	in gaage, no						

Project/Site: Newport Municipal Airport				City/Cou	City/County: City of Newport					Sampling Date:		23-Sep	o-2019	
Applicant/Owner:	City of New	port					Ş	State:	OR	Sampling I	Point:	10	)4	
Investigator(s): Luke	e Johnson a	nd Amanda Brophy		Section	i, Towns	ship, Ran	ge:	Sectio	n 29, To	ownship 11 S	S, Rang	ge 11 S		
Landform (hillslope,	terrace, etc	.): Depression		Local reli	ef (conc	cave, con	vex, I	none): (	Concav	е	Slop	e (%):	0	
Subregion (LRR):	A2 - Willam	ette Valley	Lat:	44.596128			Lor	ng: -124	.04606	4	Datu	m: NAD8	3	
Soil Map Unit Name	: Nelscott	loam, 3 to 12 perce	nt slopes					NW	classif	ication: non	e			
Are climatic / hydrol	ogic conditio	ons on the site typic	al for this t	ime of year?	Yes	No	Х	(If no	, explai	n in Remark	s.)			
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?	1	Are "Norn	nal C	ircumst	ances"	present' Ye	s X	No		
Are Vegetation	Soil	or Hydrology	naturall	y problematic?	(	(If needeo	d, exp	olain an	y answ	ers in Rema	rks.)			

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

n previous months was below normal range i precipitatio

# **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1. Alnus rubra	5	1	FAC	That Are OBL, FACW, or FAC: 2 (A)
2				
3				Total Number of Dominant
4				Species Across All Strata: 6 (B)
	5	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Gaultheria shallon	15	1	FACU	That Are OBL, FACW, or FAC: <u>33.33</u> (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5	15			OBL species x 1=
	30	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Plantago lanceolata	20	1	FACU	FACU species x 4=
2. Cytisus scoparius	10	1	NL	UPL species x 5=
3. Holcus lanatus	5		FAC	Column Totals: (A) (B)
4.				
5.				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	35	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	25	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2. Rubus ursinus	10	1	FACU	be present, unless disturbed or problematic.
	35	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				•

US Army Corps of Engineers

Sampling Point:

SOIL		Sampling Point: 104
Profile Description: (Describe to the dep	th needed to document the indicator or confirm the	e absence of indicators.)
Depth Matrix	Redox Features	,
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-18 10 yr 4/4 100		Sandy loam Contains gravel
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sand Grain	s. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
		uness disturbed of problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soil	Present? Yes X No
Remarks: Constructed berm		
Remarks. Constructed bern		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require	al al all that any ha	
Surface Water (A1)	ed; check all that apply)	Secondary Indicators (2 or more required)
	Water-Stained Leaves (B9) (except MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)		
	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) T) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) T) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         B8)         No       X         No       X         No       X         No       X         Depth (Inches):       Netta	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) T) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, m	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         B8)         No       X         No       X         No       X         No       X         Depth (Inches):       Netta	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7) Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         7)       Other (Explain in Remarks)         B8)         No       X         No       X         No       X         No       X         Depth (Inches):       Netta	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport				City/County: City of Newport				Sampling Dat	e: 23-Sep	o-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poir	nt: 10	)5
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tov	wnship, Range	: Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): Slope		Local relief (co	oncave, conve	x, none):	None	S	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.594	4708	I	_ong: -124	1.04327	3 C	Datum: NAD8	3
Soil Map Unit Name	: Fendall	-Templeton silt loams	s, 35 to 60 percer	nt slopes		NW	l classif	ication: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(lf nc	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	explain ar	iy answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe wor	bolow porp	al range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Tsuga heterophylla	65	1	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
	00	<u> </u>	FACU		(A)
2 3				Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
T	65	= Total Cover			_ (D)
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus spectabilis	25	1	FAC	That Are OBL, FACW, or FAC:	(A/B)
2. Rubus parviflorus	5		FACU		
3. Gaultheria shallon	10		FACU	Prevalence Index worksheet:	
4. Alnus rubra	5		FAC	Total % Cover of: Multiply by:	
5. Vaccinium parvifolium	10		FAC	OBL species x 1=	
	55	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Polystichum munitum	5	1	FACU	FACU species x 4=	
2. Trillium ovatum	10	1	FACU	UPL species x 5=	_
3.				Column Totals: (A)	(B)
4.				()	_ ` '
5.				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7.				1- Rapid Test For Hydrophytic Vegetation	
8.				2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10.	······			4- Morphological Adaptations ¹ (Provide su	upporting
11. Lillypad plant	10			data in Remarks or on a separate shee	et)
	25	= Total Cover		5-Wetland Non-Vascular Plants ¹	,
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (E	xplain)
1.				¹ Indicators of hydric soil and wetland hydrold	ogy must
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes No	х
				Present?	
Remarks:				-	

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Profile Description: (Describe to the dep	th needed to document	the indicate	or or con	nfirm the	e absence of indic	ators.)
Depth Matrix		ox Features				, ,
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2 Duff						
2-10 10YR 4/6 97	7.5 yr 5/8	3	С	M/pl	Silt loam	
	·					
	·					
¹ Type: C=Concentration, D=Depletion, RM			ated Sar	nd Grain		tion: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all I	LRRs, unless otherwise	noted.)			Indicators for Pr	oblematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muck (A	•
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Parent M	( )
Black Histic (A3)	Loamy Mucky Minera		ot MLRA	. 1)		Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix Depleted Matrix (F3)	(F2)			Other (Explai	n in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Dark Surface	(F6)			3Indicators of byd	rophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface	. ,				blogy must be present,
Sandy Gleved Matrix (S4)	Redox Depressions (				-	bed or problematic.
Restrictive Layer (if present):						
Type: <u>Hard pan</u> Depth (inches): 10			Hvd	Iric Soil	Present? Yes	No X
Depth (inches): 10			nyu		Fresent: Tes	
Remarks: Old road bed						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	ed; check all that apply)			_	Secondary In	dicators (2 or more required)
Surface Water (A1)	Water-Stained Le		xcept MI	LRA		ined Leaves (B9) (MLRA 1, 2,
High Water Table (A2) Saturation (A3)	1, 2, 4A, and 4E Salt Crust (B11)	3)			4A, an	
Water Marks (B1)					Drainaga	•
	Aquatic Invertebra	ates (B13)				Patterns (B10)
Sediment Deposits (B2)	Aquatic Invertebra	. ,			Dry-Seaso	Patterns (B10) on Water Table (C2)
Sediment Deposits (B2)Drift Deposits (B3)	·	Odor (C1)	Living Ro	pots (C3)	Dry-Seaso Saturation	Patterns (B10)
Drift Deposits (B3) Algal Mat or Crust (B4)	Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	Odor (C1) heres along uced Iron (C4	-) -)	, ,	Dry-Seaso Saturation Geomorph Shallow A	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	Odor (C1) heres along uced Iron (C4 loction in Tille	) d Soils (C	26)	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	Odor (C1) heres along uced Iron (C4 oction in Tilled ed Plants (D	) d Soils (C	26)	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) ( <b>LRR A</b> )
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	Odor (C1) heres along uced Iron (C4 oction in Tilled ed Plants (D	) d Soils (C	26)	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (	Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	Odor (C1) heres along uced Iron (C4 oction in Tilled ed Plants (D	) d Soils (C	26)	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) ( <b>LRR A</b> )
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	Odor (C1) heres along uced Iron (C4 ction in Tille ed Plants (D Remarks)	.) d Soils (C 1) ( <b>LRR</b> /	26)	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) ( <b>LRR A</b> )
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations:	Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in B8)	Odor (C1) heres along uced Iron (C4 ction in Tiller ed Plants (D Remarks)	) d Soils (C 1) ( <b>LRR</b> )	26)	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) ( <b>LRR A</b> )
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes	Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress O Other (Explain in B8)	Odor (C1) heres along uced Iron (C4 ction in Tiller ed Plants (D Remarks) ches): NA ches): >10	) d Soils (C 1) ( <b>LRR</b> )	C6) A)	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) It Mounds (D6) ( <b>LRR A</b> ) ve Hummocks (D7)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in B8) No X Depth (Inc No X Depth (Inc	Odor (C1) heres along uced Iron (C4 ction in Tilled ed Plants (D Remarks) ches): <u>&gt;10</u> ches): <u>&gt;10</u>	) d Soils (C 1) (LRR )	C6) A) Wetla	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An Frost-Hear	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) ( <b>LRR A</b> ) ve Hummocks (D7)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in B8) No X Depth (Inc No X Depth (Inc	Odor (C1) heres along uced Iron (C4 ction in Tilled ed Plants (D Remarks) ches): <u>&gt;10</u> ches): <u>&gt;10</u>	) d Soils (C 1) (LRR )	C6) A) Wetla	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An Frost-Hear	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) ( <b>LRR A</b> ) ve Hummocks (D7)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface ( Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in B8) No X Depth (Inc No X Depth (Inc	Odor (C1) heres along uced Iron (C4 ction in Tilled ed Plants (D Remarks) ches): <u>&gt;10</u> ches): <u>&gt;10</u>	) d Soils (C 1) (LRR )	C6) A) Wetla	Dry-Seaso Saturation Geomorph Shallow A FAC-Neut Raised An Frost-Hear	Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5) t Mounds (D6) ( <b>LRR A</b> ) ve Hummocks (D7)

Project/Site: Newpor	rt Municipa	l Airport		City/Co	unty: I	Newport			Sampling Da	ate:	23-Sep	-2019
Applicant/Owner:	City of Nev	wport		_	-		State:	OR	Sampling Po	oint:	10	6
Investigator(s): L. Jo	hnson, A.	Brophy		Section	n, Tow	nship, Rang	e: Sectio	on 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local rel	ief (cor	ncave, conv	ex, none):	Concav	'e	Slope	(%):	20
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.59	952101			Long: -12	4.04227	39	Datum	: NAD83	1
Soil Map Unit Name	: Fendall-	Templeton silt loams	s, 35 to 60 perce	ent slopes			NW	I classif	ication: none			
Are climatic / hydrolo	ogic conditi	ons on the site typic	al for this time o	of year?	Yes	No	X (If no	o, explai	n in Remarks.	.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?		Are "Norm	al Circums	tances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?		(If needed	, explain ar	ny answ	ers in Remark	s.)		

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

Hydric Soil	Vegetation Present? Present? drology Present?	Yes Yes Yes	X X X	No No No		e Sampled A n a Wetland			
Remarks:	Recorded precipitation Soils are moist and r Within seasonal drain	not saturated	month	s was below n	ormal range				
VEGETA	TION – Use scier	ntific name	s of	plants.					
Tree Strat		10m R)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species		
1. Isuga r	neterophylla			50	X	FACU	That Are OBL, FACW, or FAC:	3	(A)

2. 3. 4. <u>Sapling/Shrub Stratum</u> (Plot size: <u>5m R)</u> 1. <u>Rubus spectabilis</u> 2.	50 90	= Total Cover	FAC	Total Number of Dominant Species Across All Strata:5(B)Percent of Dominant Species That Are OBL, FACW, or FAC:60.00(A/B)
3. 4. 5.	90	= Total Cover		Prevalence Index worksheet:       Total % Cover of:     Multiply by:       OBL species     x 1=       FACW species     x 2=
Herb Stratum       (Plot size: 3m R)         1. Polystichum munitum         2. Geum macrophyllum         3. Athyrium cyclosorum         4.         5.	10 5 5	X X X	FACU FAC FAC	FAC species       x 3=         FACU species       x 4=         UPL species       x 5=         Column Totals:       (A)         Prevalence Index = B/A =       0
6 7 8 9 10				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
11	20	= Total Cover		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.
% Bare Ground in Herb Stratum		= Total Cover		Hydrophytic Vegetation Yes <u>X</u> No Present?
Remarks:				

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	epth needed to document		or con	firm the	e absence of ir	idicators.)
Depth Matrix		ox Features	<b>T</b>	1 2	Tardana	Deveseries
(inches) Color (moist) %	. ,	%	Type ¹	Loc ²	Texture Silt loam	Remarks mucky, high organics
4-16 10YR 3/1 70		15	С	М	Silt loam	muoky, nigri organios
	5YR 3/4	15	C	M	Silt loam	
¹ Type: C=Concentration, D=Depletion, R			ited Sar	nd Grain		cation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to al	I LRRS, UNIESS Otherwise	noted.)			Indicators to	r Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muc	k (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)					nt Material (TF2)
Black Histic (A3)	Loamy Mucky Minera	al (F1) <b>(except</b>	t MLRA	.1)	Very Shal	low Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (Ex	plain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	X Redox Dark Surface	. ,				hydrophytic vegetation and
Sandy Mucky Mineral (S1)	X Depleted Dark Surface					ydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions	F8)			unless dis	turbed or problematic.
Restrictive Layer (if present):						
Туре:						
Depth (inches):			Hyd	ric Soil	Present?	Yes <u>X</u> No
Remarks: Soils are moist and not satura	ated					
HYDROLOGY						
Wetland Hydrology Indicators:						
Wetland Hydrology Indicators: Primary Indicators (minimum of one requ	red; check all that apply)				Secondar	y Indicators (2 or more required)
Primary Indicators (minimum of one requ		aves (B9) ( <b>ex</b>	cept MI	_ LRA		y Indicators (2 or more required) Stained Leaves (B9) ( <b>MLRA 1. 2</b> .
Primary Indicators (minimum of one requ Surface Water (A1)	Water-Stained Le		cept MI	_ LRA	Water	y Indicators (2 or more required) Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and <b>4B)</b>
Primary Indicators (minimum of one requ			cept MI	_ LRA	Water- 4A	Stained Leaves (B9) (MLRA 1, 2,
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2)	Water-Stained Le	3)	cept MI	_ LRA	Water 4A	Stained Leaves (B9) (MLRA 1, 2, and 4B)
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Le <b>1, 2, 4A, and 4I</b> Salt Crust (B11) Aquatic Invertebric Hydrogen Sulfide	<b>3)</b> ates (B13) Odor (C1)	·		Water 4A Draina Dry-Se Satura	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Le <b>1, 2, 4A, and 4I</b> Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp	<b>3)</b> ates (B13) Odor (C1) heres along Li	·		Water 4A Draina Dry-Se Satura	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Le <b>1, 2, 4A, and 4I</b> Salt Crust (B11) Aquatic Invertebric Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	<b>3)</b> odor (C1) heres along Li uced Iron (C4)	ving Rc	oots (C3)	Water 4A Draina Dry-Se Satura ) Geom Shallo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Le <b>1, 2, 4A, and 4I</b> Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	<b>B)</b> ates (B13) Odor (C1) heres along Li uced Iron (C4) ction in Tilled	ving Ro Soils (C	oots (C3)	Water 4A, Draina Dry-Se Satura ) Geom Shallo FAC-N	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Le <b>1, 2, 4A, and 4I</b> Salt Crust (B11) Aquatic Invertebric Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) heres along Li uced Iron (C4) ction in Tilled ed Plants (D1)	ving Ro Soils (C	oots (C3)	Water 4A, Draina Dry-Se Satura ) Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in	ates (B13) Odor (C1) heres along Li uced Iron (C4) ction in Tilled ed Plants (D1)	ving Ro Soils (C	oots (C3)	Water 4A, Draina Dry-Se Satura ) Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Primary Indicators (minimum of one requinance)         Surface Water (A1)         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(I         Sparsely Vegetated Concave Surface	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in	ates (B13) Odor (C1) heres along Li uced Iron (C4) ction in Tilled ed Plants (D1)	ving Ro Soils (C	oots (C3)	Water 4A, Draina Dry-Se Satura ) Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one requ Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(	Water-Stained Lee 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in e (B8)	<b>B)</b> Odor (C1) heres along Li uced Iron (C4) ction in Tilled ed Plants (D1) Remarks)	ving Ro Soils (C	oots (C3)	Water 4A, Draina Dry-Se Satura ) Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one requinance)         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(Image)         Field Observations:	Water-Stained Lee 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in e (B8)	ates (B13) Odor (C1) heres along Li uced Iron (C4) ction in Tilled ed Plants (D1) Remarks) ches): <u>NA</u>	ving Ro Soils (C	oots (C3)	Water 4A, Draina Dry-Se Satura ) Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Primary Indicators (minimum of one requination of the second s	Water-Stained Lee 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in e (B8) No X Depth (Ind	ates (B13) Odor (C1) heres along Li uced Iron (C4) ction in Tilled ed Plants (D1) Remarks) ches): <u>NA</u> ches): <u>&gt;16</u>	ving Ro Soils (C	oots (C3) (C6) (A)	Water 4A, Draina Dry-Se Satura ) Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Primary Indicators (minimum of one requination of one requ	Water-Stained Lee  1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in (B8) No X Depth (Ind No Depth (Ind) No Depth (Ind)	ates (B13) Odor (C1) heres along Li uced Iron (C4) iction in Tilled ed Plants (D1) Remarks) ches): NA ches): >16 ches): zero	ving Rc Soils (C ) (LRR /	oots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura ) Geome Shallo FAC-N Raisec Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Primary Indicators (minimum of one requination of one requ	Water-Stained Lee  1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in (B8) No X Depth (Ind No Depth (Ind) No Depth (Ind)	ates (B13) Odor (C1) heres along Li uced Iron (C4) iction in Tilled ed Plants (D1) Remarks) ches): NA ches): >16 ches): zero	ving Rc Soils (C ) (LRR /	oots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura ) Geome Shallo FAC-N Raisec Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Primary Indicators (minimum of one requination of one requ	Water-Stained Lee  1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebr. Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress 37) Other (Explain in (B8) No X Depth (Ind No Depth (Ind) No Depth (Ind)	ates (B13) Odor (C1) heres along Li uced Iron (C4) iction in Tilled ed Plants (D1) Remarks) ches): NA ches): >16 ches): zero	ving Rc Soils (C ) (LRR /	oots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura ) Geome Shallo FAC-N Raisec Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)

Project/Site: Newport Municipal Airport				City/County: City of Newport			Sampling Date	e: 23-Sep	-2019	
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poin	it: 10	)7
Investigator(s): Luke	Section, Tow	vnship, Range:	Sectio	n 29, To	ownship 11 S, R	ange 11 S				
Landform (hillslope,	terrace, e	etc.): hillslope		Local relief (co	ncave, convex	, none):	none	S	lope (%):	4
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.595	506	L	ong: -124	1.04220	9 D	atum: NAD8	3
Soil Map Unit Name	: 18G -F	endall-Templeton silt	loams, 35 to 60 p	ercent slopes		NW	l classif	ication: Riverine	e	
Are climatic / hydrole	ogic cond	itions on the site typic	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly dis	sturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally proble	ematic?	(If needed, e	xplain an	y answ	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present?	Yes	No	Х					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x	
Remarks: Recorded precipitation in		nthe was	below por	mal range				

Recorded precipitation in previous months was below normal range emarks:

# **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
	% Cover	Species?	Status	Number of Dominant Species	(
1. Sambucus racemosa	15	1	FACU	That Are OBL, FACW, or FAC:	(A)
2. Tsuga heterophylla	10	1	FACU	3	
3				Total Number of Dominant	
4				Species Across All Strata: 6	(B)
Oralia a/Oharik Otastura (DL t. 1	25	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Alnus rubra	60	1	FAC	That Are OBL, FACW, or FAC:	(A/B)
2 3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	-
5				OBL species x 1=	_
	60	= Total Cover		FACW species x 2=	_
Herb Stratum (Plot size: 5' R)				FAC species x 3=	_
1. Polystichum munitum	10	1	FACU	FACU species x 4=	_
2. Athyrium cyclosorum	5	1	FAC	UPL species x 5=	_
3. Blechnum spicant	5	1	FAC	Column Totals:(A)	(B)
4					
5				Prevalence Index = $B/A = \underline{0}$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide su	pporting
11				data in Remarks or on a separate sheet	:)
	20	= Total Cover		5 Wetland Non-Vascular Plants ¹	,
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Ex	(plain)
1				¹ Indicators of hydric soil and wetland hydrolog	av must
2.				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes No	x
				Present?	<u> </u>
Remarks:					
Remarks.					

US Army Corps of Engineers

Sampling Point: 107

Profile Description: (Describe to the dept	th needed to document the indicator or confirm	the absence of indicators.)
Depth Matrix	Redox Features	
		- ² Testus Demerle
(inches) Color (moist) %	Color (moist) % Type ¹ Lo	c ² Texture Remarks
0-16 5yr 3/2 100		
	=Reduced Matrix, CS=Covered or Coated Sand G	rains. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histopol (A1)	Sondy Roday (SE)	$2 \text{ or } \mathbf{M}_{\text{uple}}$
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric S	Soil Present? Yes No X
Pamarks: Flacks of sandstone mixed in s	oil	
Remarks: Flecks of sandstone mixed in s	oil	
Remarks: Flecks of sandstone mixed in s	oil	
Remarks: Flecks of sandstone mixed in s	oil	
	oil	
HYDROLOGY	oil	
	oil	
HYDROLOGY		Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require	d; check all that apply)	······································
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b>	Water-Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b> 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	d; check all that apply) — Water-Stained Leaves (B9) ( <b>except MLRA</b> <b>1, 2, 4A, and 4B)</b> Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	d; check all that apply) — Water-Stained Leaves (B9) ( <b>except MLRA</b> <b>1, 2, 4A, and 4B)</b> — Salt Crust (B11) — Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b> <b>1, 2, 4A, and 4B)</b> Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b> <b>1, 2, 4A, and 4B)</b> Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b> <b>1, 2, 4A, and 4B)</b> Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b> <b>1, 2, 4A, and 4B)</b> Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b> <b>1, 2, 4A, and 4B)</b> Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Field Observations:         Surface Water Present?	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?         Yes         Water Table Present?	d; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?         Yes         Water Table Present?	d; check all that apply) Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?         Yes         Water Table Present?	d; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	d; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	d; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	d; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         (includes capillary fringe)         Describe Recorded Data (stream gauge, model)	d; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpo	rt Municipa	al Airport		City/County:	City of Newpo	rt		Sampling Date	e: 23-Sep	-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poin	nt: 10	8
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	vnship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, e	tc.): terraces		Local relief (co	ncave, conve	, none):	none	S	lope (%):	0
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.59	3872	L	ong: <u>-12</u> 4	1.04752	2D	atum: NAD83	3
Soil Map Unit Name	: 42C, N	elscott loam, 3 to 12	percent slopes			NW	l classif	cation: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present?	Yes 2	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	х
Remarks: Recorded precipitation in		onthe wor	bolownorm	Irango			

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

US Army Corps of Engineers

Sampling Point: 108

Depth Matrix	h needed to document the indicator or confirm t Redox Features	he absence of indicators.)
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	
0-16 10 yr 2/2		Silt loam
¹ Type: C-Concentration D-Depletion PM-	Reduced Matrix, CS=Covered or Coated Sand Gra	ins. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Depth (inches):		il Present? Yes No X
	<u> </u>	
Remarks: Trace redox in pore linings, less	: than 1%	
HYDROLOGY		
Wetland Hydrology Indicators:		
	d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stated Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?	Water-State Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         Gaturation Present?       Yes         Includes capillary fringe)       Includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) No X
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B7)         Surface Water Present?         Yes         Water Table Present?         Yes         Includes capillary fringe)         Describe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         88)         No       X         Depth (Inches):       >16         Wettee	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) And Hydrology Present? Yes No X

Project/Site: Newpo	rt Municipa	al Airport		City/County:	City of Newpo	Sampling Date	e: 23-Se	o-2019		
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poir	nt: 10	)9
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	nship, Range	Sectio	n 29, To	wnship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (co	ncave, convex	, none):	concave	e <u></u> s	Slope (%):	5
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.593	3544	L	.ong: <u>-12</u> 4	1.04736	6 C	Datum: NAD8	3
Soil Map Unit Name	: 42C - N	lelscott loam, 3 to 12	percent slopes			NW	l classif	cation: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	f year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Recorded precipitation in	nroviouo	mont		normal range			

Recorded precipitation in previous months was below normal range Remarks:

#### VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: Status 30'R) % Cover Species? Number of Dominant Species 1. Alnus rubra 20 1 FAC That Are OBL, FACW, or FAC: 2 2. Total Number of Dominant 3 4. Species Across All Strata: 2 20 = Total Cover Sapling/Shrub Stratum (Plot size: 30' R) Percent of Dominant Species That Are OBL, FACW, or FAC: 1. 100.00 (A/B) 2. Prevalence Index worksheet: 3. 4. Total % Cover of: Multiply by: OBL species x 1= 5. = Total Cover FACW species x 2= Herb Stratum (Plot size: 5'R) FAC species x 3= 1. Carex obnupta 70 OBL FACU species 1 x 4= 15 OBL 2. Lemna minor UPL species x 5= 3. Column Totals: (A) 4 5. Prevalence Index = B/A = 0 6 Hydrophytic Vegetation Indicators: 1- Rapid Test For Hydrophytic Vegetation 7. X 2-Dominance Test is >50% 8. 3- Prevalence Index is ≤3.0¹ 9. 4- Morphological Adaptations¹ (Provide supporting 10. data in Remarks or on a separate sheet) 11. 85 = Total Cover 5-Wetland Non-Vascular Plants¹ Woody Vine Stratum (Plot size: 30' R) 6- Problematic Hydrophytic Vegetation¹(Explain) ¹ Indicators of hydric soil and wetland hydrology must 1. 2 be present, unless disturbed or problematic.

= Total Cover

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% Bare Ground in Herb Stratum

Remarks:

Western Mountains, Valleys, and Coast - Version 2.0

Yes X

No

Hydrophytic

Vegetation

Present?

(A)

(B)

(B)

Profile De	scription: (Describe	to the depth	needed to document	the indicate	or or cor	nfirm the	e absence of inc	licators.)
Depth	Matrix		Rede	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10 yr 3/2	100					Sand loam	
6-12	10 yr 3/2	96	5 yr 4/6	4	<u> </u>	M	Sand loam	
12-16	2.5y 5/1	95	7.5 yr 6/6	5	С	М	Loam	
							<u> </u>	
							·	
							·	
¹ Type: C=	Concentration, D=De	pletion, RM=F	educed Matrix, CS=C	overed or Co	ated Sar	nd Grain	is. ² Loo	cation: PL=Pore Lining, M=Matr
Hydric Soi	Indicators: (Applic	able to all LR	Rs, unless otherwise	e noted.)				Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muck	(A10)
Histic	Epipedon (A2)		Stripped Matrix (S6)				Red Parent	t Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) <b>(exce</b>	pt MLRA	. 1)	Very Shallo	ow Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix	x (F2)			Other (Exp	lain in Remarks)
	ed Below Dark Surfac	e (A11) X	Depleted Matrix (F3)					
Thick	Dark Surface (A12)		Redox Dark Surface	(F6)			³ Indicators of h	ydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ce (F7)			wetland hyd	drology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dist	urbed or problematic.
Restrictive	Layer (if present):							
Type:			_					
Depth	(inches):		-		Hyd	Iric Soil	Present? Yo	es <u>X</u> No
Remarks:								
HYDROL	OGY							
Wetland H	drology Indicators:							
Primary In	dicators (minimum of	one required;	check all that apply)				Secondary	Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Le	eaves (B9) ( <b>e</b>	xcept M	LRA	Water-S	Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4		•			and 4B)
X Satura	tion (A3)		Salt Crust (B11)				Drainag	e Patterns (B10)
Water	Marks (B1)		Aquatic Invertebr	ates (B13)			Dry-Sea	son Water Table (C2)
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturati	on Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp	-	-	oots (C3	·	phic Position (D2)
	Mat or Crust (B4)		Presence of Redu		,			Aquitard (D3)
	eposits (B5)		Recent Iron Redu		`	'		eutral Test (D5)
	e Soil Cracks (B6)	Imagan (P7)	Stunted or Stress		1) ( <b>LRR</b> )	A)		Ant Mounds (D6) ( <b>LRR A</b> )
	ation Visible on Aerial ely Vegetated Concav		Other (Explain in	Remarks)			FIOSI-FIO	eave Hummocks (D7)
·	, ,		1					
	ervations:	<b>K</b> 1.	V Denth //-					
	ater Present? Yes Present? Yes							
Saturation						Wetla	nd Hydrology P	resent? Yes X No
	capillary fringe)	<u> </u>						
	· · · ·	n gauge, mon	toring well, aerial pho	tos, previous	inspection	ons), if a	available	
Remarks:								

Project/Site: Newpo	rt Municipa	l Airport		City/County:	City of Newpo	Sampling Date	e: 23-Sep	-2019		
Applicant/Owner:	City of Nev	wport		-		State:	OR	Sampling Poin	t: 11	0
Investigator(s): Luke	e Johnson a	and Amanda Brophy	_	Section, Tow	nship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	ncave, conve	, none):	none	S	lope (%):	4
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.593	3527	L	ong: <u>-12</u> 4	1.04727	4 D	atum: NAD83	3
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes			NW	l classif	cation: none		
Are climatic / hydrol	ogic condit	ons on the site typic	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present?	Yes	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	х	No
Pomarka: Recorded precipitation in		onthe w	ac holowy	mal rango			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Picea sitchensis	45	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	45	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	5	1	FAC	That Are OBL, FACW, or FAC: 75.00 (A/B)
2				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	5	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: <u>5' R)</u>	10		54011	FAC species x 3=
1. Plantago lanceolata	40	1	FACU	FACU species x 4=
2. Ranunculus repens	10		FAC	UPL species x 5=
3. Trifolium longipes	10		FAC	Column Totals:(A)(B)
4				Dravalance la dav. D/A
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				$\times$ 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11	60	= Total Cover		data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)	60			6- Problematic Hydrophytic Vegetation ¹ (Explain)
<u>Woody Vine Stratum</u> (Plot size: <u>30' R)</u> 1. Rubus armeniacus	65	1	FAC	
	05		FAC	¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	65	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No Present?
Remarks:				•

US Army Corps of Engineers

Sampling Point: 110

Profile Description: (Describe to the depth Depth Matrix	needed to document the indicator or Redox Features	confirm the	absence of ind	licators.)
(inches) Color (moist) %	Color (moist) % Typ	be ¹ Loc ²	Texture	Remarks
0-16 10 yr 2/2 100			Silt loam	
			<u> </u>	
			•	
1				
¹ Type: C=Concentration, D=Depletion, RM=F Hydric Soil Indicators: (Applicable to all LR	,	Sand Grains		cation: PL=Pore Lining, M=Matr Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Muck	(A10)
Histic Epipedon (A2)	Stripped Matrix (S6)			Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MI	LRA 1)	Very Shallo	w Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Expl	ain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Matrix (F3) Redox Dark Surface (F6)		andicators of h	drophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)			drology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		-	urbed or problematic.
Restrictive Layer (if present):				
Туре:				
Depth (inches):		Hydric Soil F	Present? Ye	es <u>No X</u>
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required;			Secondary	Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (excep	ot MLRA		tained Leaves (B9) (MLRA 1, 2,
High Water Table (A2) Saturation (A3)	1, 2, 4A, and 4B) Salt Crust (B11)		•	a <b>nd 4B)</b> e Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)			son Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		Saturatio	on Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living	g Roots (C3)		phic Position (D2)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soil			Aquitard (D3) utral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (L	( )		Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	,		eave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8	)			
Field Observations:				
Surface Water Present? Yes No Water Table Present? Yes No				
	X Depth (Inches): >16			
Saturation Present? Yes No		Wetlan	d Hydrology Pi	resent? Yes <u>No X</u>
Saturation Present? Yes No (includes capillary fringe)		Wetlan	d Hydrology Pi	resent? Yes <u>No X</u>
	Depth (Inches): >16			resent? Yes <u>No X</u>
(includes capillary fringe)	Depth (Inches): >16			resent? Yes <u>No X</u>

Project/Site: Newpo	rt Municipa	al Airport		City/County:	City of New	port	Sampling Da	te: 23-Se	p-2019	
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Po	int: 1	11
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tov	vnship, Rang	ge: Secti	on 29, T	ownship 11 S,	Range 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	oncave, conv	ex, none):	concav	e	Slope (%):	3
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.592	262		Long: -12	4.04742	9	Datum: NAD8	3
Soil Map Unit Name	: 42 E - N	Nelscott loam, 12 to 5	0 percent slopes			NV	/I classif	ication: none		
Are climatic / hydrol	ogic condi	tions on the site typic	al for this time of	year? Yes	No	X (lf n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	sturbed?	Are "Norm	al Circum	stances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed	, explain a	ny answ	ers in Remarks	5.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	х
Remarka: Reported presinitation in	n nroviouo ma	onthe wor	holownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Alnus rubra	85	1	FAC	That Are OBL, FACW, or FAC: 2 (A)
2.				(')
3.	·			Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	85	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Sambucus racemosa	10	1	FACU	That Are OBL, FACW, or FAC: 40.00 (A/B)
2. Rubus parviflorus	10	1	FACU	
3. Gaultheria shallon	20	1	FACU	Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	40	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Polystichum munitum	20		FACU	FACU species x 4=
2.				UPL species x 5=
3				Column Totals: (A) (B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	20	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	5	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	5	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				

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Sampling Point: 111

Profile De	scription: (Describe	to the depth	needed to docume	nt the indicat	or or col	nfirm the	e absence of indi	cators.)
Depth	Matrix		Re	dox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	7.5 yr 2.5/2	50		70	туре	LUC	Silt loam	Remarks
0-16	7.5 yr 4/4						Silt loam	
0-10	7.5 yl 4/4	50					Siit ioani	
							<u> </u>	
¹ Type: C=	-Concentration, D=Dep	oletion, RM=R	educed Matrix, CS=	Covered or C	bated Sa	nd Grain	is. ² Loca	ation: PL=Pore Lining, M=Matr
Hydric Soi	I Indicators: (Applica	ble to all LR	Rs, unless otherwis	se noted.)			Indicators for P	Problematic Hydric Soils ³ :
	ol (A1)		Sandy Redox (S5)				2 cm Muck (	
Histic	Epipedon (A2)		Stripped Matrix (S6	)				Material (TF2)
Black	Histic (A3)		Loamy Mucky Mine	ral (F1) <b>(exce</b>	pt MLRA	(1)	Very Shallov	v Dark Surface (TF12)
Hydro	gen Sulfide (A4)		Loamy Gleyed Mat	rix (F2)			Other (Expla	ain in Remarks)
Deplet	ted Below Dark Surface	e (A11)	Depleted Matrix (F3	3)				
Thick	Dark Surface (A12)		Redox Dark Surfac	e (F6)			3Indicators of hydrogeneration and a second	drophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surf	ace (F7)			wetland hydr	rology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	s (F8)			unless distu	rbed or problematic.
				(				
Restrictive	Layer (if present):							
Type:								
	(inches):		-		Hvo	Iric Soil	Present? Yes	s No X
Bopti	(		-		,		100001111 10	
Remarks:								
	0.0)/							
HYDROL	UGY							
Wetland H	ydrology Indicators:							
Primary In	dicators (minimum of o	one required:	check all that apply)				Secondary I	ndicators (2 or more required)
	e Water (A1)		Water-Stained L	eaves (B9) (	vcent M			ained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and		vcehr in	LNA		nd 4B)
	ation (A3)		Salt Crust (B11)					Patterns (B10)
								on Water Table (C2)
	Marks (B1)		Aquatic Inverteb					
	ent Deposits (B2)		Hydrogen Sulfid		Living D	anta (Ca		n Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizos		-		· · · · · · · · · · · · · · · · · · ·	whic Position (D2)
	Mat or Crust (B4)		Presence of Rec		,			Aquitard (D3)
	eposits (B5)		Recent Iron Rec		`	'		itral Test (D5)
	e Soil Cracks (B6)		Stunted or Stres		1) ( <b>LRR</b>	A)		nt Mounds (D6) ( <b>LRR A</b> )
	ation Visible on Aerial I		Other (Explain i	n Remarks)			Frost-Hea	ave Hummocks (D7)
Sparse	ely Vegetated Concave	e Sufface (B8	)					
Field Obs	ervations:							
	/ater Present? Yes	No	D X Depth (I	nches): N/	λ			
Water Tab	ble Present? Yes	No		nches): >1	6			
Saturation			X Depth (I	·	6	Wetla	nd Hydrology Pre	esent? Yes No X
	capillary fringe)		、	<i>'</i>				
•	Recorded Data (stream	n gauge, mon	itoring well. aerial ph	otos, previous	inspecti	ons). if a	available	
		J J ., JI	5 . , pri	,	-1-2-24	-,,		
Remarks:								
Nemarks.								

Project/Site: Newpo	rt Municip	al Airport		City/County:	City of Newpo	Sampling Date	e: 24-Se	p-2019		
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 1	12
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	vnship, Range:	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): Slope		Local relief (co	oncave, convex	, none):	Concav	e S	Slope (%):	4
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.592	243	L	ong: <u>-12</u> 4	1.04224	C	Datum: NAD8	3
Soil Map Unit Name	: 18G -	Fendall-Templeton silf	t loams, 35 to 60 j	percent slopes		NW	l classif	ication: Riverin	e	
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly dis	sturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally proble	ematic?	(If needed, e	xplain an	y answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Remarka: Recorded precipitation in	nroviouo	mont		normal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

US Army Corps of Engineers

Sampling Point: 112

Profile De	scription: (Describe to	the depth	needed to document	the indicat	or or cor	nfirm the	e absence of indi	cators.)
Depth	Matrix		Redo	ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10 yr 3/2	100					Sandy loam	
6-16	10 yr 4/1	100					Silt loam	
	Concentration D Depl		aduced Metrix CS C		ootod So		21 000	ation: DL Dara Lining M Matr
	Concentration, D=Deple				Ualeu Sal	lu Glain		ation: PL=Pore Lining, M=Matr Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muck (	(A10)
	Epipedon (A2)		Stripped Matrix (S6)					Material (TF2)
	Histic (A3)		Loamy Mucky Minera	al (F1) <b>(exce</b>	pt MLRA	(1)		w Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix			,	Other (Expla	ain in Remarks)
	ed Below Dark Surface	(A11)	Depleted Matrix (F3)	. ()				
	Dark Surface (A12)		Redox Dark Surface	(F6)			3Indicators of hve	drophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surface	ce (F7)			-	rology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions (	F8)			unless distu	rbed or problematic.
	1 ( <i>it</i>							
	Layer (if present):							
Type: Depth	(inches):				Hvd	Iric Soil	Present? Yes	s X No
2 3 5 11	(				,•			<u> </u>
Remarks:	Sandstone layer at 4 in	nches in son	ne locations. Strange	soils				
HYDROL	OGY							
Wetland H	ydrology Indicators:							
Primary In	dicators (minimum of or	e required;	check all that apply)				Secondary I	ndicators (2 or more required)
X Surfac	e Water (A1)		Water-Stained Le	aves (B9) ( <b>e</b>	except M	LRA	Water-St	ained Leaves (B9) (MLRA 1, 2,
X High V	Vater Table (A2)		1, 2, 4A, and 4E	3)			4A, ai	nd 4B)
X Satura	ition (A3)		Salt Crust (B11)				Drainage	Patterns (B10)
X Water	Marks (B1)		Aquatic Invertebra	( )			Dry-Seas	son Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide					n Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizospl	-	-	oots (C3)	· · · ·	phic Position (D2)
	Mat or Crust (B4)		Presence of Redu		,			Aquitard (D3)
	eposits (B5)		Recent Iron Redu		`	,		itral Test (D5)
	e Soil Cracks (B6) ation Visible on Aerial Im	agon (P7)	Stunted or Stress Other (Explain in	-	( <b>LRR</b>	<b>A</b> )		nt Mounds (D6) ( <b>LRR A</b> ) ave Hummocks (D7)
	ely Vegetated Concave	0,000		Remarks)			FIOSI-FIE	ave Hummocks (D7)
	ery vegetated concaves							
	ervations:							
	-	X No		hes): 1				
	ble Present? Yes	X No						
Saturation	-	X No	Depth (Inc	cnes):		wetla	nd Hydrology Pre	esent? Yes <u>X</u> No
· ·	capillary fringe)		toring wall parial shat		incret	one) if a	wailabla	
	Recorded Data (stream g		toring weil, aerial phot	os, previous	sinspecti	uns), II a		
Small narrow Remarks:	seep that flows into strea	a111						
. comanto.								

US Army Corps of Engineers

Project/Site: Newport Municipal Airport				City/County: City of Newport				Sampling Date	e: 24-Se	p-2019
Applicant/Owner:	City of N	ewport				State:	OR	Sampling Poir	nt: 1	13
Investigator(s): Luke	Johnsor	and Amanda Brophy		Section, To	wnship, Rang	e: Sectio	on 29, T	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): Slope		Local relief (c	oncave, conv	ex, none):	None	S	Slope (%):	7
Subregion (LRR):	A2 - Wills	amette Valley	Lat: 44.592	2436		Long: -12	4.04221	7 C	Datum: NAD8	3
Soil Map Unit Name	: 18G -	Fendall-Templeton silt	loams, 35 to 60	percent slopes	S	NW	I classif	ication: Riverin	e	
Are climatic / hydrolo	ogic cond	itions on the site typic	al for this time of	year? Yes	No	X (If n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	sturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally probl	ematic?	(If needed	, explain a	ny answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	х
Remarka: Reported presinitation in	n nroviouo ma	onthe wor	holownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	70	1	FACU	That Are OBL, FACW, or FAC:	1 (A)
2.				_	
3				Total Number of Dominant	
4				Species Across All Strata:	5 (B)
	70	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Sambucus racemosa	10	1	FACU	That Are OBL, FACW, or FAC:	20.00 (A/B)
2. Vaccinium parvifolium 3.	20	1	FACU	Prevalence Index worksheet:	
					Aultiply by
4					Iultiply by:
5	30			OBL species x 1=	
	30	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: <u>5' R)</u>	40		540	FAC species x 3=	
1. Blechnum spicant	10	1	FAC		·
2. Athyrium cyclosorum	5		FAC		
3. Polystichum munitum	20	1	FACU	Column Totals:(A)	(B)
4 5				Prevalence Index = B/A =	0
				Hydrophytic Vegetation Indicato	-
7				1- Rapid Test For Hydrophytic	
				2- Dominance Test is >50%	vegetation
8 9.				2· Dominance Test is >50% 3· Prevalence Index is $\leq 3.0^{1}$	
40		<u> </u>			(Drevide evenenties
10		<u> </u>		4- Morphological Adaptations ¹	
11	35	= Total Cover		data in Remarks or on a sep 5-Wetland Non-Vascular Plant	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Veg	-
				¹ Indicators of hydric soil and wetla	
2.				be present, unless disturbed or pr	
2				· · ·	oblematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes Present?	<u>No X</u>
Remarks:				-	

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Depth         Matrix         Redox Features           (inches)         Color (moist)         %         Type ¹ Loc ² Texture         Remarks           0-11         Duff         100         Duff         Color (moist)         %         Type ¹ Loc ² Texture         Remarks           0-11         Duff         100         Duff         Color (moist)         %         Type ¹ Loc ² Duff         Color (moist)         %         Type ¹ Color (moist)         %         Type ¹ Color (moist)         %         Type ¹ Color         Color <th>Depth Matrix</th> <th></th> <th></th> <th></th> <th></th>	Depth Matrix				
0-11       Duff       Duff       Clay loam         11-16       7.5 yr 4/1       100       Sloped Matrix (S6)       Indicators of Problematic Hydric Soils:         11       Hydrogen Suffac (A12)       Sandy Redox (S5)       - Common Kitrase (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be presen		Redox Features			
11-16       7.5 yr 4/1       100       Clay loam         11-16       2 m Muck       100       100         11-16       2 m Muck       100       100       100         11-16       2 m Muck       100       100       100       100       100         11-16       2 m Muck       100       100       100       100       100       100       100       100       100       100       100	(inches) Color (moist) %	Color (moist) % T	ype ¹ Loc ²	Texture	Remarks
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix         Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::         Histosol (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histosol (A2)       Stripped Matrix (S6)       2 cm Muck (A10)         Black Histic (A3)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Popth (inches):       No       X         Remarks:       Saturation (A3)       Saturation (A3)       Saturation (B11)       Water-Stained Leaves (B9) (except MLRA 1, 2, 4, and 4B)       Water-Stained Leaves (B9) (except MLRA 1, 2, 4, and 4B)       Drainage Patterns (B10)       Dry-Season Water Table (A2)       Dry-Season Water Table (C2)       Saturation Water Bable (A2)       Presence of Reduced for (C1)       Dry-Season Water Table (C2)       Saturation Visible Present (B10)       Dry-Season Water Table (C2)       Saturation Visible Position (D2)       Shalped Matrix (C3)       Saturation Visible Position (D2)       Shalped Matrix (C3)       Saturation Visibl		Duff		Duff	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::	11-16 7.5 yr 4/1 100	<u> </u>		Clay loam	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::		<u> </u>			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::		<u> </u>		·	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils::	¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coate	ed Sand Grain	s. ² Locatio	on: PL=Pore Lining, M=Matr
Histic Epipedon (A2)       Stripped Matrix (S6)       Red Parent Material (TF2)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Peresent?       No       X         Remarks:       Primary Indicators:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)       Water-Stained Leaves (B9) (mad 4B)       Water-Stained Leaves (B9) (MLRA 1, 2         Saturation (A3)       Sati Crust (B1)       Driv-Season Water Table (C2)       Saturation (A3)       Driv-Season Water Table (C2)         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Shallow Aquitard (D3)       Saturation (Visible on Aerial Imagery (C         Sedime	Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)			
Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Peph (inches):       No       X         Remarks:       Mydrology Indicators:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       Water Marks (B1)       Drainage Patterns (B10)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)       Drainage Patterns (B10)         Water Marks (B1)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Saturation Visible on Aerial Imagery (C Geomorphic Position (D2)         Presence of Reduced Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)       Saturation D5)       Saturation D5)       S	Histosol (A1)	Sandy Redox (S5)		2 cm Muck (A1	0)
Hydrogen Sulfide (A4)       Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       unless disturbed or problematic.         Restrictive Layer (if present):       Type:       No       X         Type:       Depleted Dark Surface (F7)       Hydric Soil Present?       Yes       No       X         Remarks:       Performary Indicators (ininimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       Drainage Patterns (B10)       Drainage Patterns (B10)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)       Dry-Season Water Table (C2)         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence or Reduced Iron (C	Histic Epipedon (A2)	Stripped Matrix (S6)		Red Parent Ma	aterial (TF2)
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Medox Depressions (F8)         No X         Secondary Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):         Type:	Black Histic (A3)	Loamy Mucky Mineral (F1) (except	MLRA 1)	Very Shallow D	Oark Surface (TF12)
Thick Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       unless disturbed or problematic.         Restrictive Layer (if present):       Type:       unless disturbed or problematic.         Type:       Depth (inches):       Hydric Soil Present?       Yes       No       X         Remarks:       HyDROLOGY       Vetland Hydrology Indicators:       No       X         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2         High Water Table (A2)       1, 2, 4A, and 4B)       Drainage Patterns (B10)       Drainage Patterns (B10)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)       Saturation Visible on Aerial Imagery (C         Sediment Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)       Shallow Aquitard (D3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)       Shallow Aquitard (D3) </td <td>Hydrogen Sulfide (A4)</td> <td>Loamy Gleyed Matrix (F2)</td> <td></td> <td>Other (Explain</td> <td>in Remarks)</td>	Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Other (Explain	in Remarks)
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:					
Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       unless disturbed or problematic.         Restrictive Layer (if present):       Type:				•	
Restrictive Layer (if present):       Type:		Depleted Dark Surface (F7)		wetland hydrolo	ogy must be present,
Type:	Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbe	ed or problematic.
Depth (inches):       Hydric Soil Present?       Yes       No       X         Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)	Restrictive Layer (if present):				
Remarks:         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Water Marks (B1)       Aquatic Invertebrates (B13)         Drift Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)		_			
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)	Depth (inches):	_	Hydric Soil	Present? Yes	No <u>X</u>
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2)         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)	Remarks:				
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2)         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)					
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2)         High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)					
Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Drift Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)					
Surface Water (A1)Water-Stained Leaves (B9) (except MLRAWater-Stained Leaves (B9) (MLRA 1, 2High Water Table (A2)1, 2, 4A, and 4B)4A, and 4B)Saturation (A3)Salt Crust (B11)Drainage Patterns (B10)Water Marks (B1)Aquatic Invertebrates (B13)Dry-Season Water Table (C2)Sediment Deposits (B2)Hydrogen Sulfide Odor (C1)Saturation Visible on Aerial Imagery (CDrift Deposits (B3)Oxidized Rhizospheres along Living Roots (C3)Geomorphic Position (D2)Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Shallow Aquitard (D3)Iron Deposits (B5)Recent Iron Reduction in Tilled Soils (C6)FAC-Neutral Test (D5)					
High Water Table (A2)1, 2, 4A, and 4B)4A, and 4B)Saturation (A3)Salt Crust (B11)Drainage Patterns (B10)Water Marks (B1)Aquatic Invertebrates (B13)Dry-Season Water Table (C2)Sediment Deposits (B2)Hydrogen Sulfide Odor (C1)Saturation Visible on Aerial Imagery (CDrift Deposits (B3)Oxidized Rhizospheres along Living Roots (C3)Geomorphic Position (D2)Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Shallow Aquitard (D3)Iron Deposits (B5)Recent Iron Reduction in Tilled Soils (C6)FAC-Neutral Test (D5)	Primary Indicators (minimum of one required				
Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)			ept MLRA		
Water Marks (B1)Aquatic Invertebrates (B13)Dry-Season Water Table (C2)Sediment Deposits (B2)Hydrogen Sulfide Odor (C1)Saturation Visible on Aerial Imagery (CDrift Deposits (B3)Oxidized Rhizospheres along Living Roots (C3)Geomorphic Position (D2)Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Shallow Aquitard (D3)Iron Deposits (B5)Recent Iron Reduction in Tilled Soils (C6)FAC-Neutral Test (D5)					
Sediment Deposits (B2)Hydrogen Sulfide Odor (C1)Saturation Visible on Aerial Imagery (CDrift Deposits (B3)Oxidized Rhizospheres along Living Roots (C3)Geomorphic Position (D2)Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Shallow Aquitard (D3)Iron Deposits (B5)Recent Iron Reduction in Tilled Soils (C6)FAC-Neutral Test (D5)					
Drift Deposits (B3)Oxidized Rhizospheres along Living Roots (C3)Geomorphic Position (D2)Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Shallow Aquitard (D3)Iron Deposits (B5)Recent Iron Reduction in Tilled Soils (C6)FAC-Neutral Test (D5)					
Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Shallow Aquitard (D3)Iron Deposits (B5)Recent Iron Reduction in Tilled Soils (C6)FAC-Neutral Test (D5)			ina Roots (C3		<b>U I I I I I I I I I I</b>
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5)				· ·	
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)			Soils (C6)	'	( )
	Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1)	(LRR A)	Raised Ant	Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7)	Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)		Frost-Heave	e Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	Sparsely Vegetated Concave Surface (B	8)			
Field Observations:					
Surface Water Present? Yes No X Depth (Inches): NA			-		
Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present? Yes       No       X		· · · /	- Wotle	nd Hydrology Press	ant? Vas No Y
(includes capillary fringe)		beptin (inches).		ind Hydrology Frese	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	· · · · · · · · · · · · · · · · · · ·	nitoring well, aerial photos, previous in	spections), if a	available	
Remarks:					

Project/Site: Newpor	Project/Site: Newport Municipal Airport				City/County: City of Newport				Sampling Dat	te: 24-S	ep-2019	
Applicant/Owner:	City of Ne	ewport					State:	OR	Sampling Poi	int:	114	
Investigator(s): Luke	Johnson	and Amanda Brophy		Section,	Township, Ra	nge:	Sectio	n 29, To	ownship 11 S, I	Range 11 S		
Landform (hillslope,	terrace, e	etc.): Slope		Local relie	f (concave, co	nvex,	none): I	None		Slope (%):	7	
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.591	1879		Lo	ong: -124	.04268	9 I	Datum: NAD	083	
Soil Map Unit Name	: 18G -	Fendall-Templeton silt	loams, 35 to 60	percent slo	ppes		NW	classif	ication: none			
Are climatic / hydrolo	ogic cond	itions on the site typica	al for this time of	year? Y	res No	Х	(lf no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "No	rmal (	Circumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally probl	lematic?	(If need	ed, ex	plain an	y answ	ers in Remarks	5.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarka: Recorded precipitation in		nthe wor	holown	mal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

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Profile Description: (Describe to the de	pth needed to document the indicator or confirm	m the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) % 0-5 7.5yr 2.5/3 100		<u>Loam</u> <u>Remarks</u> <u>Nood mixed in</u>
0-5 7.5yr 2.5/3 100 5-16 7.5yr2.5/2 100		Loam Wood mixed in Sand loam
<u> </u>		Gand Ioan
	M=Reduced Matrix, CS=Covered or Coated Sand	
Hydric Soil Indicators: (Applicable to al	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric	Soil Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one requi	ed; check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLR)	A Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots	Saturation Visible on Aerial Imagery (C9) S (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(E	7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface	(B8)	—
Field Observations:		
Surface Water Present? Yes	No X Depth (Inches): NA	
Water Table Present? Yes	No X Depth (Inches): >16	
Saturation Present? Yes	No X Depth (Inches): >16	Vetland Hydrology Present? Yes NoX
Saturation Present? Yes	No X Depth (Inches): >16	
Saturation Present? Yes	NoXDepth (Inches):>16NoXDepth (Inches):>16	
Saturation Present? Yes	NoXDepth (Inches):>16NoXDepth (Inches):>16	

Project/Site: Newpo	Project/Site: Newport Municipal Airport				City/County: City of Newport				e: 24-Se	o-2019
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poir	nt: 1 [.]	15
Investigator(s): Luke	e Johnson	and Amanda Brophy		Section, Tow	nship, Range	Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	etc.): terrace		Local relief (co	ncave, conve	k, none):	Concav	e S	Slope (%):	4
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	4943	L	ong: <u>-12</u> 4	.05021	7 <u></u> C	Datum: NAD8	3
Soil Map Unit Name	: 14B - D	Depoe loam, 0 to 7 pe	rcent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time o	f year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly c	disturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	plematic?	(If needed, e	explain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Pomerke: Poperded precipitation in province months was below permal range							

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC: 2 (A)
2.				
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Rubus spectabilis	40	1	FAC	That Are OBL, FACW, or FAC: <u>66.67</u> (A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	40	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Lysichiton americanus	15	1	OBL	FACU species x 4=
2				UPL species x 5=
3				Column Totals:(A)(B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11	15	Tatal Osua		data in Remarks or on a separate sheet)
Woody Vine Stratum (Plot size: 30' R)	15	= Total Cover		5- Wetland Non-Vascular Plants ¹ 6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 50				Vegetation Yes X No Present?
Remarks:				1

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Profile De	scription: (Describe to	the depth	needed to document	t the indicate	or or cor	firm the	e absence of in	dicators.)
Depth	Matrix			ox Features				,
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10 yr 2/2	100		///	1990	200	Sandy loam	Homano
5-16	10 yr 4/3	98	7.5 yr 5/6	2	С	PI	Sandy loam	Very sandy
			· · · · · · · · · · · · · · · · · · ·					
1								
	Concentration, D=Deple				bated Sar	nd Grain		Decation: PL=Pore Lining, M=Matr
Hydric Soi	Indicators: (Applicab	le to all LR	Rs, unless otherwise	e noted.)			Indicators to	r Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muc	k (A10)
Histic	Epipedon (A2)		Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black	Histic (A3)		Loamy Mucky Miner	al (F1) <b>(exce</b>	pt MLRA	. 1)	Very Shal	low Dark Surface (TF12)
	gen Sulfide (A4)	_	Loamy Gleyed Matrix				Other (Ex	plain in Remarks)
	ed Below Dark Surface	(A11)	_ Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface					hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfa	( )				ydrology must be present,
Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.								
Restrictive	Layer (if present):							
Type:								
••	(inches):		-		Hyd	ric Soil	Present?	res X No
Remarks:								
Remarks.								
HYDROL	OGY							
	vdrology Indicators:							
Primary In	dicators (minimum of on	e required;				_	Secondar	y Indicators (2 or more required)
	e Water (A1)		Water-Stained Le		xcept M	LRA		Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4	В)				and 4B)
X Satura	Marks (B1)		Salt Crust (B11) Aquatic Invertebr	otoo (P12)				ge Patterns (B10) ason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide	tion Visible on Aerial Imagery (C9)				
	eposits (B3)		Oxidized Rhizosp	. ,	l ivina Ra	oots (C3		orphic Position (D2)
	Mat or Crust (B4)		Presence of Red	-	-			w Aquitard (D3)
	eposits (B5)		Recent Iron Redu		,	26)		eutral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or Stress	ed Plants (D	1) (LRR	<b>A</b> )	Raised	Ant Mounds (D6) ( <b>LRR A</b> )
	ation Visible on Aerial Im	0,00,0	Other (Explain in	Remarks)			Frost-H	leave Hummocks (D7)
Spars	ely Vegetated Concave	Surface (B8	)					
Field Obs	ervations:							
Surface W	ater Present? Yes	X No						
	le Present? Yes	X No						
Saturation		X No	Depth (In	ches):		Wetla	nd Hydrology I	Present? Yes <u>X</u> No
	capillary fringe)		itoring well periol	too province-	Inorest	ono) :f -	wailable	
	Recorded Data (stream g	jauge, mon	itoring well, aerial pho	tos, previous	inspection	uns), if a	Ivaliadie	
Seeps througl Remarks:	iout wetland							
Kemarka.								

Project/Site: Newport Municipal Airport			City/Co	City/County: Newport				Sampling Da	ate:	24-Sep-2019		
Applicant/Owner: C	ity of Newp	ort					State:	OR	Sampling Po	pint:	116	1
Investigator(s): L. Joh	nson, A. Bro	ophy		Section	n, Town	ship, Rang	e: Secti	on 29, T	ownship 11 S,	Range	11 S	
Landform (hillslope, te	errace, etc.)	terrace		Local rel	ief (con	cave, conv	ex, none):	Conca	/e	Slope (	%):	0
Subregion (LRR): A	2 - Willame	ette Valley	Lat:	44.5849481167	,		Long: -12	4.05023	31017	Datum	NAD83	
Soil Map Unit Name:	Depoe loa	m, 0 to 7 percent slo	pes				NV	VI classi	fication: none			
Are climatic / hydrolog	ic condition	is on the site typical	for this t	ime of year?	Yes	No	X (lfn	o, expla	in in Remarks.	)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?		Are "Norm	al Circum	stances"	present' Yes	Х	No	
Are Vegetation	Soil	or Hydrology	naturall	y problematic?		(If needed	, explain a	ny answ	ers in Remark	s.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х	
Remarks: Recorded precipitation in	n previous mo	onths was	s below n	mal range				

Recorded precipitation in previous months was below normal range

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

Within seasonal drainage, no hydrology.

# **VEGETATION – Use scientific names of plants.**

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

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Profile Description: (Description: Quescribe to the depth needed to document the indicator or confirm the absence of indicators.)         Optimized       Matrix       Reads       Type:       Loc       Sill locan         Optimized       10 (yr 3/3)       100       2.5 yr 5/8       5       C       M       Sill locan       Sill locan         Image: Sill indicators:       10 (yr 3/3)       100       7.5 yr 5/8       5       C       M       Sill locan	Profile Description: (Describe to the de	nth needed to document	the indicato	r or con	firm the	absence of ind	licators )	
Image: status indicators       %       Type:       Loc ² Texture       Remarks         0-4       10 yr 3/3       06       7.5 yr 5/8       5       C       M       Sin barn       Image: status indicators       Remarks         1-16       10 yr 3/3       96       7.5 yr 5/8       5       C       M       Sin barn       Image: status indicators       Remarks         1-17       10 yr 3/3       96       7.5 yr 5/8       5       C       M       Sin barn       Image: status indicators       Remarks       Image: status indicators       Image: status indicators       Image: status indicators       Image: status indicators       Image: status indicators <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
¹		_		Tune ¹	1 002	Toyturo	Domorko	
4-16       10 yr 3/3       95       7.5 yr 5/8       5       C       M       Sandy Dam         "Type:       C_Concentration, D_Depeletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains.       *Location; PL=Pere Lining, M=Matrix         Hydric Soll Indicators:       (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Solls::         Histosci (A1)       Sandy Redox, (S5)       2 cm Muck (M10)         Black Histic (A2)       Sandy Nicky Mineral (F1) (except MLRA 1)       Other (Explain in Romarks)         Depleted Delow Dark Surface (T12)       Redox CB5)       -findicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type:       Type:       No       X         Type:       Depleted Dark Surface (F7)       Water Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)       Sandy Oleyed Matrix (S4)       Sandy Clevept MLRA       -wields hydrology must be present, unless disturbed or problematic.         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile       Secondary Indicators (2 or more required)         Mydrology Indicators (MLRA 1, 2, 4A, and 4B)       Sail Crust (B11)       -wields hydrology Midcators (2 or more required)         Surface Water (A1)       Application treatmarks (B1)       -wields hydrology Midcators (2 or more required) <tr< td=""><td></td><td></td><td>70</td><td>туре</td><td>LOC</td><td></td><td>Remarks</td></tr<>			70	туре	LOC		Remarks	
Image: Solution of the second statute of the second statu		-	5	С	М			
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histosel (A1)       Sandy Rebox (S5)       2 cm Muck (A10)         Histosel (A2)       Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Depleted Blow Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegatation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil Present?       Yes       No       X         Peipth (inches):       Depleted Bark Surface (F6)       water Stained Leaves (B9) (except MLRA 1)       Water Asta and not saturated. Soils in adjacent area are parts of a disturbed stockpile         Hydric Soil Present?       Yes       No       X         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Surface Water (A1)       Salt Crust (B11)       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)       Dry-Seeson Water Table (C2)         Saturation Aris (B1)       Salt Crust (B1)       Presence of Reduced fron (C4)       Dry-Seeson Water Table (C2)       Salturation Presence (B2)         Maret Stained Leaves (B8)       Recent fron Reduction in Ti				-				
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histosel (A1)       Sandy Rebox (S5)       2 cm Muck (A10)         Histosel (A2)       Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Depleted Blow Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegatation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil Present?       Yes       No       X         Peipth (inches):       Depleted Bark Surface (F6)       water Stained Leaves (B9) (except MLRA 1)       Water Asta and not saturated. Soils in adjacent area are parts of a disturbed stockpile         Hydric Soil Present?       Yes       No       X         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Surface Water (A1)       Salt Crust (B11)       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)       Dry-Seeson Water Table (C2)         Saturation Aris (B1)       Salt Crust (B1)       Presence of Reduced fron (C4)       Dry-Seeson Water Table (C2)       Salturation Presence (B2)         Maret Stained Leaves (B8)       Recent fron Reduction in Ti								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histosel (A1)       Sandy Rebox (S5)       2 cm Muck (A10)         Histosel (A2)       Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Depleted Blow Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegatation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil Present?       Yes       No       X         Peipth (inches):       Depleted Bark Surface (F6)       water Stained Leaves (B9) (except MLRA 1)       Water Asta and not saturated. Soils in adjacent area are parts of a disturbed stockpile         Hydric Soil Present?       Yes       No       X         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Surface Water (A1)       Salt Crust (B11)       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)       Dry-Seeson Water Table (C2)         Saturation Aris (B1)       Salt Crust (B1)       Presence of Reduced fron (C4)       Dry-Seeson Water Table (C2)       Salturation Presence (B2)         Maret Stained Leaves (B8)       Recent fron Reduction in Ti								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histosel (A1)       Sandy Rebox (S5)       2 cm Muck (A10)         Histosel (A2)       Stripped Matrix (S6)       Very Shallow Dark Surface (TF12)         Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Other (Explain in Remarks)         Depleted Blow Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegatation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       Hydric Soil Present?       Yes       No       X         Peipth (inches):       Depleted Bark Surface (F6)       water Stained Leaves (B9) (except MLRA 1)       Water Asta and not saturated. Soils in adjacent area are parts of a disturbed stockpile         Hydric Soil Present?       Yes       No       X         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Surface Water (A1)       Salt Crust (B11)       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)       Dry-Seeson Water Table (C2)         Saturation Aris (B1)       Salt Crust (B1)       Presence of Reduced fron (C4)       Dry-Seeson Water Table (C2)       Salturation Presence (B2)         Maret Stained Leaves (B8)       Recent fron Reduction in Ti								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histosel (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histo: Epipedon (A2)       Stripped Matrix (S6)								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)       Indicators for Problematic Hydric Soils:         Histosel (A1)       Sandy Redox (S5)       2 cm Muck (A10)         Histo: Epipedon (A2)       Stripped Matrix (S6)		<u> </u>						
Histosel (A1)	¹ Type: C=Concentration, D=Depletion, RI	M=Reduced Matrix, CS=Co	overed or Co	ated Sar	nd Grain	s. ² Loo	cation: PL=Pore Lining, M=Matr	
Histic Epipedon (A2)       Stripped Matrix (S6)       Red Parent Material (TF2)         Black Histic (A3)       Loamy Gleyed Matrix (F3)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type:       No<_X	Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise	noted.)			Indicators for	Problematic Hydric Soils ³ :	
Histic Epipedon (A2)       Stripped Matrix (S6)       Red Parent Material (TF2)         Black Histic (A3)       Loamy Gleyed Matrix (F3)       Other (Explain in Remarks)         Hydrogen Sulfide (A4)       Depleted Matrix (F3)       Other (Explain in Remarks)         Thick Dark Surface (A12)       Redox Dark Surface (F7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type:       No <x< td="">       No<x< td="">         Permary Indicators (minimum of one required; check all that apply)       Hydrog prust be present, and and be present, unless disturbed stockpile         Surface Water (A1)       Hydrogen Sulfide (C2)       No       X         Primary Indicators (minimum of one required; check all that apply)       Satcrace Water (A1)       Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)         Surface Water (A1)       Satl Crucit (B11)       Depleted Dation in Tiele Soils (C2)       Saturation (A3)         Sediment Deposits (B2)       Hydrogen Sulfide Coder (C1)       Drainage Patterns (B10)       Dry-Season Water Table (C2)         Surface Site (B2)       Oxidized Rhizospheres stong Living Roots (C3)       Saturation (C2)       Saturation (C2)         Primary Indicators (B1)       Caceent Iron Reduction in Tieled Soils (C6)       Saturation (C2)       Saturation (C2)         Saturation (A3)       Caceent Ir</x<></x<>	Histosol (A1)	Sandv Redox (S5)				2 cm Muck	(A10)	
Black Histic (A3)       Loamy Mucky Mineral (F1) (except MLRA 1)       Very Shallow Dark Surface (TF12)         Hydrogen Sufface (A1)       Depleted Bark (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type:								
Hydrogen Sulfide (A4)      Loamy Gleyed Matrix (F2)       Other (Explain in Remarks)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       ''ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F6)       ''ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (If present):       Type:			(F1) <b>(excer</b>	ot MLRA	(1)		· · · ·	
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F6)       unless disturbed or problematic.         Restrictive Layer (If present):       Type:       Depleted Matrix (S4)       No _X         Restrictive Layer (If present):       Type:       Depleted Matrix (S4)       No _X         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile       No _X         Ptimary Indicators (Ininium of one required; check all that apply)       Secondary Indicators (2 or more required)					,			
Thick Dark Surface (A12)       Redox Dark Surface (F6)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       unless disturbed or problematic.         Retro: Type:							,	
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if present):       Type:       hydric Soil Present?       Yes       No       x         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile       Hydric Soil Present?       Yes       No       x         HYDROLOGY         Wetland Hydrology Indicators:       Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)       Water-Stained Leaves (B9) (except MLRA       Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Sutration (A3)       Salt Crust (B1)       Data of Crust (B1)       Durainage Patterns (B10)       Durainage Patterns (B10)         Dy-Season Water (A1)       Oxidized Rhizospheres along Living Roots (C3)       Presence of Reduced Iron (C4)       Dro-Season Water (A1)       Dro-Season Water (A1)         Water Table (A2)       Oxidized Rhizospheres along Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)       Saturation V	· · /	Redox Dark Surface (	F6)			3Indicators of hy	drophytic vegetation and	
Restrictive Layer (if present):       Type:         Depth (inches):		Depleted Dark Surfac	e (F7)					
Type:	Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic.							
Type:								
Depth (inches):       Hydric Soil Present?       Yes       No       X         Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Sati Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Drift Deposits (B2)       Hydrice Roduced Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Sturted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Depth (Inches):         Field Observations:       No         Sutration Present?       Yes         No       X       Depth (Inches):         Water Table Present?       Yes         No       X       Depth (Inches):         Sturation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (Inches): <t< td=""><td>Restrictive Layer (if present):</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Restrictive Layer (if present):							
Remarks:       Soils are moist and not saturated. Soils in adjacent area are parts of a disturbed stockpile         HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Ma tor Crust (B4)       Presence of Reduced Iron (C4)         Torn Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Surface Water Present?       Yes         Water Table Present?       No         X       Depth (Inches):         Water Table Present?       Yes         No       Depth (Inches):         Surface Water Present?       Yes         No       Depth (Inches):         Surface Water Present?       Yes								
HYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Solis (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Iron dotion Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Pepth (Inches): NA         Water Table Present?       Yes       No         Water Table Present?       Yes       No         Water Table Present?       Yes       No         No       X       Depth (Inches): >16         Surface Sapillary fringe)       Depth (Inches): >16       Wetland Hydrology Present?       Yes       No <x< td="">         Depth (Inches): &gt;16       Depth (In</x<>	Depth (inches):			Hyd	ric Soil	Present? Ye	es <u>No X</u>	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Batter Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Baturation Present? Yes       No X       Depth (Inches	Remarks: Soils are moist and not satura	ted. Soils in adjacent area	are parts of	a distur	bed stoc	kpile		
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Batter Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Baturation Present? Yes       No X       Depth (Inches								
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Batter Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Baturation Present? Yes       No X       Depth (Inches								
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Saturation Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Batter Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Water Table Present? Yes       No X       Depth (Inches): <u>&gt;16</u> Baturation Present? Yes       No X       Depth (Inches	HYDROLOGY							
Primary Indicators (minimum of one required; check all that apply)       Secondary Indicators (2 or more required)         Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Field Observations:       No         Surface Water Present?       Yes         No       Depth (Inches):         Saturation Present?       Yes         No       X         Depth (Inches):       >16         Water Table Present?       Yes         No       X         Depth (Inches):       >16         Water Table Present?       Yes         No       X         Depth (Inches):       >16         Water Table Present?	Waterallbudgeless Indiantera							
Surface Water (A1)       Water-Stained Leaves (B9) (except MLRA         High Water Table (A2)       1, 2, 4A, and 4B)         Saturation (A3)       Salt Crust (B11)         Water Marks (B1)       Aquatic Invertebrates (B13)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)         Diff Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)         Sparsely Vegetated Concave Surface (B8)       No         Field Observations:       No         Sutrace Water Table Present?       Yes         No       X       Depth (Inches):         includes capillary fringe)       No         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available						Cocordon		
High Water Table (A2)       1, 2, 4A, and 4B)       4A, and 4B)         Saturation (A3)       Salt Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Opeth (Inches): <u>&gt;16</u> Wetland Hydrology Present? Yes No X       Depth (Inches): <u>&gt;16</u> Water Table Present?       Yes       No X       Depth (Inches): <u>&gt;16</u> Wetland Hydrology Present? Yes No X       No X         Includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Yes       No X					_		· · · ·	
Saturation (A3)       Sat Crust (B11)       Drainage Patterns (B10)         Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       <				Cept M	LRA			
Water Marks (B1)       Aquatic Invertebrates (B13)       Dry-Season Water Table (C2)         Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Opeth (Inches): <u>NA</u> Frost-Heave Hummocks (D7)         Field Observations:       No X       Depth (Inches): <u>&gt;16</u> Wetland Hydrology Present? Yes <u>No X</u> Water Table Present?       Yes <u>No X</u> Depth (Inches): <u>&gt;16</u> Wetland Hydrology Present? Yes <u>No X</u> Cincludes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available			9				•	
Sediment Deposits (B2)       Hydrogen Sulfide Odor (C1)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Depth (Inches): <u>NA</u> No <u>X</u> Depth (Inches): <u>&gt;16</u> Water Table Present?       Yes       No <u>X</u> Depth (Inches): <u>&gt;16</u> Wetland Hydrology Present? Yes <u>No X</u> No <u>X</u> (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Vestilable			ites (B13)					
Drift Deposits (B3)       Oxidized Rhizospheres along Living Roots (C3)       Geomorphic Position (D2)         Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Yes       No       X								
Algal Mat or Crust (B4)       Presence of Reduced Iron (C4)       Shallow Aquitard (D3)         Iron Deposits (B5)       Recent Iron Reduction in Tilled Soils (C6)       FAC-Neutral Test (D5)         Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Teld Observations:       No       X         Surface Water Present?       Yes       No       X       Depth (Inches):       >16         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Favailable				ivina Ro	oots (C3)			
Surface Soil Cracks (B6)       Stunted or Stressed Plants (D1) (LRR A)       Raised Ant Mounds (D6) (LRR A)         Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Sturface Water Present? Yes       No       X         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Metland Hydrology Present?       Yes       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Yes       No       X			-	-				
Inundation Visible on Aerial Imagery(B7)       Other (Explain in Remarks)       Frost-Heave Hummocks (D7)         Sparsely Vegetated Concave Surface (B8)       Field Observations:       Surface Water Present? Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present? Yes       No       X         Gaturation Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present? Yes       No       X         Includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Image: No       X	Iron Deposits (B5)	Recent Iron Reduc	ction in Tilleo	l Soils (C	26)	FAC-Ne	utral Test (D5)	
Sparsely Vegetated Concave Surface (B8)         Field Observations:         Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Gincludes capillary fringe)       Vestand Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Vestand Hydrology Present?       Yes	Surface Soil Cracks (B6)	Stunted or Stresse	ed Plants (D	) ( <b>LRR</b> )	<b>A</b> )	Raised /	Ant Mounds (D6) (LRR A)	
Field Observations:         Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Values capillary fringe)       Ves       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Ves       No       X	Inundation Visible on Aerial Imagery(E	67) Other (Explain in F	Remarks)			Frost-He	eave Hummocks (D7)	
Surface Water Present?       Yes       No       X       Depth (Inches):       NA         Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         Gincludes capillary fringe)       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Wetland Hydrology Present?       Yes       No       X	Sparsely Vegetated Concave Surface	(B8)						
Water Table Present?       Yes       No       X       Depth (Inches):       >16         Saturation Present?       Yes       No       X       Depth (Inches):       >16         (includes capillary fringe)       Ves       No       X       Depth (Inches):       >16         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Ves       No       X	Field Observations:							
Saturation Present?       Yes       No       X       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Depth (Inches):       >16       Wetland Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available       Stream gauge       No       X	Surface Water Present? Yes	No X Depth (Inc	hes): NA					
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available			·					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available		No X Depth (Inc	hes): >16		Wetla	nd Hydrology P	resent? Yes <u>No X</u>	
					\ . <b>.</b>			
Remarks: Within seasonal drainage, no hydrology.	Describe Recorded Data (stream gauge, r	nonitoring well, aerial photo	os, previous	inspectio	ons), if a	ivallable		
Komano	Remarks: Within seasonal drainage no							

Project/Site: Newport Municipal Airport			City/County: Newport				Sampling Date	e: 24-Sep	-2019	
Applicant/Owner:	City of Newp	ort				State:	OR	Sampling Poir	nt: SP11	7B
Investigator(s): A. Br	ophy			Section, Tow	nship, Range:	Sectio	n 29, To	wnship 11 S, F	Range 11 S	
Landform (hillslope, t	terrace, etc.)	: hillslope		Local relief (co	ncave, conve	(, none): (	Concav	e S	Slope (%):	1
Subregion (LRR):	A2 - Willame	ette Valley	Lat: 44.589	9559	L	.ong: -124	.04459	C	Datum: NAD83	
Soil Map Unit Name:	Nelscott lo	am, 12 to 50 perce	ent slopes			NWI	classifi	cation: none		
Are climatic / hydrolo	gic condition	ns on the site typica	I for this time of	year? Yes	No X	(lf no	, explaiı	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Demarka: Described presinitation i							

Recorded precipitation in previous months was below normal range Remarks:

#### VEGETATION – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 10m R) % Cover Species? Status Number of Dominant Species 1. Tsuga heterophylla 80 Х FACU That Are OBL, FACW, or FAC: 40 2. Alnus rubra Х FAC Total Number of Dominant 3 4. Species Across All Strata: 120 = Total Cover Sapling/Shrub Stratum (Plot size: 5m R) Percent of Dominant Species 1. Rubus spectabilis 10 FAC Х That Are OBL, FACW, or FAC: 2. Vaccinium parvifolium 10 Х FACU 3. Gaultheria shallon trace FACU Prevalence Index worksheet: Multiply by: 4. Total % Cover of: OBL species x 1= 5. 20 = Total Cover FACW species x 2= Herb Stratum (Plot size: 3m R) FAC species х З= 1. Athyrium cyclosorum 5 FAC FACU species x 4= 15 OBL 2. Lysichiton americanus Х UPL species x 5= 3. Oenanthe sarmentosa 10 Х OBL Column Totals: (A) 4 5 Prevalence Index = B/A = 6 getation Indicators: 7 t For Hydrophytic Vegetation e Test is >50%

· · · · · · · · · · · · · · · · · · ·		
6.		Hydrophytic Vegetation Indicators:
7.		1- Rapid Test For Hydrophytic Vegetation
8.	· ·	X 2- Dominance Test is >50%
9.	· ·	3- Prevalence Index is ≤3.0 ¹
10.	· ·	4- Morphological Adaptations ¹ (Provide supporting
11.	· ·	data in Remarks or on a separate sheet)
	30 = Total Cover	5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)		6- Problematic Hydrophytic Vegetation ¹ (Explain)
1.		¹ Indicators of hydric soil and wetland hydrology must
2.		be present, unless disturbed or problematic.
	= Total Cover	– Hydrophytic
% Bare Ground in Herb Stratum		Vegetation Yes X No
		Present?
Remarks:		

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4

6

66.67

0

(A)

(B)

(A/B)

(B)

Sampling Point: SP117B

Profile Description: (Describe to the dent	h needed to document the indicator or confirm the	e absence of indicators )
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10YR 2/1 100		Silt loam mucky, high organics
<u> </u>		
	Reduced Matrix, CS=Covered or Coated Sand Grain	
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soil	Present? Yes X No
	—	
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one require	d: check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
X Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	X Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7	) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (I	38)	
	38)	
Field Observations:	No X Depth (Inches): NA	
Field Observations: Surface Water Present? Yes	, 	
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	No X Depth (Inches): NA No X Depth (Inches): >16	nd Hydrology Present? Yes X No
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	No X Depth (Inches): NA No X Depth (Inches): >16	nd Hydrology Present? Yes X No
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16	
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No Depth (Inches): surface Wetla	
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         (includes capillary fringe)	No X Depth (Inches): NA No X Depth (Inches): >16 No Depth (Inches): surface Wetla	

Project/Site: Newport Municipal Airport			City/County: Newport			Sampling Da	te: 24-Se	ep-2019		
Applicant/Owner: 0	City of New	oort				State:	OR	Sampling Po	int: 1	17A
Investigator(s): L. Johnson, A. Brophy				Section, Township, Range: Section 29, Township 11 S, Range 1					Range 11 S	
Landform (hillslope, t	errace, etc.	): hillslope		Local relief (co	ncave, convex	, none): (	Concav	е	Slope (%):	3
Subregion (LRR): /	A2 - Willam	nette Valley	Lat: 44.59	1423	L	ong: <u>-12</u> 4	.04759		Datum: NAD	83
Soil Map Unit Name:	Nelscott I	oam, 12 to 50 perc	ent slopes			NW	classif	ication: none		
Are climatic / hydrolo	gic conditio	ns on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)	)	
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	3.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Demontra: Depended presinitation i							

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 10m R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species		
1. Frangula purshiana	55	Х	FAC	That Are OBL, FACW, or FAC:	3 (A)	
2.				-		
3.				Total Number of Dominant		
4.				Species Across All Strata:	6 (B)	
	55	= Total Cover				
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species		
1. Vaccinium parvifolium	15	X	FACU	That Are OBL, FACW, or FAC:	50.00 (A/B)	)
2. Rubus spectabilis	5	Х	FAC	_		
3. Sambucus racemosa	5	Х	FACU	Prevalence Index worksheet:		
4				Total % Cover of:	Multiply by:	
5				OBL species x 1	=	
	25	= Total Cover		FACW species x 2		
Herb Stratum (Plot size: 3m R)				FAC species 65 x 3	3= 195	
1. Polystichum munitum	5	х	FACU	FACU species 25 x 4	l= 100	
2. Athyrium cyclosorum	5	Х	FAC	UPL species x 5		
3				Column Totals: 90 (A)	295 (B)	
4.						
5.				Prevalence Index = B/A =	<u>3.28</u>	
6.				Hydrophytic Vegetation Indicat	ors:	
7				1- Rapid Test For Hydrophytic	c Vegetation	
8.				2- Dominance Test is >50%		
9.				3- Prevalence Index is ≤3.0 ¹		
10.				4- Morphological Adaptations	¹ (Provide supportin	ng
11.				data in Remarks or on a se		0
	10	= Total Cover		5-Wetland Non-Vascular Pla		
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic V	egetation ¹ (Explain)	
1				¹ Indicators of hydric soil and we	land hydrology mus	st
2.				be present, unless disturbed or		
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum	·			Vegetation Yes	No X	
				Present?		-
Remarks:				•		

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Profile Description: (Describe to the depth	needed to document	the indicate	or or con	firm the	e absence of ir	ndicators.)
Depth Matrix		x Features	_ 1	. 2		
(inches)         Color (moist)         %           0-5         10 yr 2/2         %	Color (moist)	%	Type ¹	Loc ²	Texture Silt loam	Remarks
5-16 10 yr 2/1 99	5 yr 3/4	1	С	Μ	Silt loam	Sandstone flecks
¹ Type: C=Concentration, D=Depletion, RM=I		wered or Co		d Grain	s ² l	ocation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all LF						r Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muc	sk (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black Histic (A3)	Loamy Mucky Minera	l (F1) <b>(exce</b>	pt MLRA	1)	Very Shal	llow Dark Surface (TF12)
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix Depleted Matrix (F3)	(F2)			Other (Ex	plain in Remarks)
Thick Dark Surface (A12)	Redox Dark Surface (	(F6)			3Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surfac	,				ydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (I	=8)				sturbed or problematic.
Restrictive Layer (if present):						
Type:	_		اميرا	ria Sail	Brocont?	Vaa Na V
Depth (inches):	_		пуа		Present?	Yes <u>No X</u>
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required	; check all that apply)				Secondar	y Indicators (2 or more required)
Surface Water (A1)	Water-Stained Lea	aves (B9) ( <b>e</b>	xcept MI	RA	Water	-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B	5)				, and 4B)
Saturation (A3)	Salt Crust (B11)	(5.4.5)				age Patterns (B10)
Water Marks (B1)	Aquatic Invertebra					eason Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Hydrogen Sulfide Oxidized Rhizosph		l iving Ro	ots (C3)		tion Visible on Aerial Imagery (C9) orphic Position (D2)
Algal Mat or Crust (B4)	Presence of Redu	-	-			w Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduc		·	6)	FAC-N	leutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stresse		1) ( <b>LRR</b> /	<b>A</b> )		d Ant Mounds (D6) ( <b>LRR A</b> )
Inundation Visible on Aerial Imagery(B7)	Other (Explain in F	Remarks)			Frost-I	Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B	3)					
Field Observations:						
Surface Water Present? Yes N Water Table Present? Yes N	lo <u>X</u> Depth (Inc lo X Depth (Inc	·				
	lo X Depth (Inc	·		Wetla	nd Hydrology	Present? Yes No X
(includes capillary fringe)	I X	·	_		, ,,	
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photo	os, previous	inspectio	ons), if a	vailable	

Project/Site: Newport Municipal Airport			City/County: Newport			Sampling Dat	te: 24-Se	ep-2019		
Applicant/Owner:	City of New	port				State:	OR	Sampling Poi	nt: 1	118
Investigator(s): A. Br	ophy			Section, Tov	vnship, Range:	Sectio	n 29, To	wnship 11 S, I	Range 11 S	
Landform (hillslope,	terrace, etc	.): hillslope		Local relief (co	ncave, conve	, none):	Concav	e s	Slope (%):	3
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.589	9559	L	ong: -124	1.04459		Datum: NAD	83
Soil Map Unit Name:	Nelscott	loam, 12 to 50 perc	ent slopes			NW	l classif	cation: R3UBI	Н	
Are climatic / hydrold	ogic condition	ons on the site typic	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	х
Remarka: Reported presinitation in		onthe wee	holownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	lants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Alnus rubra	30	Х	FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Tsuga heterophylla	80	Х	FACU	
3.				Total Number of Dominant
4				Species Across All Strata: 6 (B)
	110	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus spectabilis	5	X	FAC	That Are OBL, FACW, or FAC: 50.00 (A/B)
2. Gaultheria shallon	15	Х	FACU	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	20	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 40 x 3= 120
1. Polystichum munitum	5	X	FACU	FACU species 100 x 4= 400
2. Blechnum spicant	5	X	FAC	UPL species x 5=
3				Column Totals: 140 (A) 520 (B)
4				
5				Prevalence Index = $B/A = 3.71$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	10	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 80				Vegetation Yes No X
				Present?
Remarks:				

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Sampling Point: 118

Profile Description: (Describe to the dept	h needed to decument the indicator or confirm t	
	in needed to document the indicator of commut	he absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	- Texture Remarks
0-16 10 yr3/3 100		Silt loam
- <u></u>		
••	Reduced Matrix, CS=Covered or Coated Sand Gra	ins. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histosol (AT) Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
		Very Shallow Dark Surface (TF12)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric So	il Present? Yes No X
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indiantary (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required        Surface Water (A1)        High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?         Yes         Water Table Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?         Yes         Water Table Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Gaturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)  No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Gaturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         88)         No       X         Depth (Inches):       >16         Wet	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Gaturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         88)         No       X         Depth (Inches):       >16         Wet	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport				City/County:	Newport	Sampling Dat	te: 24-S	ep-2019		
Applicant/Owner: 0	City of New	/port				State:	OR	Sampling Poi	int:	119
Investigator(s): L. Jol	Section, Township, Range: Section 29, Township 11 S, Range					Range 11 S				
Landform (hillslope, t	errace, etc	.): hillslope		Local relief (co	ncave, convex	, none):	Concav	e s	Slope (%):	15
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.588	8477	L	ong: -124	.04642	1 I	Datum: NAD	083
Soil Map Unit Name:	Nelscott	loam, 12 to 50 perc	ent slopes			NW	classif	ication: none		
Are climatic / hydrolo	gic condition	ons on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	s.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarka: Reported presinitation in	n nroviouo mo	nthe wee	holownor	mal range			

Remarks: Recorded precipitation in previous months was below normal range

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

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Brofile Do	scription: (Describe to	the depth	needed to document	the indicat		firm the	absonce of in	dicators )
		the depth					e absence of m	
Depth	Matrix			ox Features	_ 1	. 2		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	5YR 3/3	100	7.5YR 4/6	5			Silt loam	
5-16	7.5YR 3/3	95	7.51K 4/0	5	C	M	Silt loam	
¹ Type: C=	Concentration, D=Deple	tion. RM=R	educed Matrix, CS=C	overed or C	oated Sar	nd Grain	s. ² l c	ocation: PL=Pore Lining, M=Matr
	I Indicators: (Applicab							r Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Mucl	k (A10)
	Epipedon (A2)		Stripped Matrix (S6)					nt Material (TF2)
	Histic (A3)		Loamy Mucky Minera	al (F1) <b>(exce</b>	ot MLRA	1)		ow Dark Surface (TF12)
	gen Sulfide (A4)		Loamy Gleyed Matrix			,		plain in Remarks)
	ed Below Dark Surface	(A11)	Depleted Matrix (F3)					
·	Dark Surface (A12)		Redox Dark Surface				3Indicators of h	hydrophytic vegetation and
	Mucky Mineral (S1)		- Depleted Dark Surfa	ce (F7)				/drology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dis	turbed or problematic.
			-					
	Layer (if present):							
Type:	(inches):		-		Hvd	ria Sail	Present? Y	/es No X
Deptil	(inches).		-		пуц		Flesent	
Remarks:								
HYDROL	OGY							
Wetland H	vdrology Indicators:							
Primary In	dicators (minimum of on	e required;	check all that apply)				Secondary	/ Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Le	eaves (B9) (	except M	_ LRA	Water-	Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4		•			and 4B)
	ition (A3)		Salt Crust (B11)				Drainag	ge Patterns (B10)
Water	Marks (B1)		Aquatic Invertebr	ates (B13)			Dry-Se	ason Water Table (C2)
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturat	tion Visible on Aerial Imagery (C9)
Drift D	eposits (B3)		Oxidized Rhizosp	-	-	oots (C3	) Geomo	orphic Position (D2)
	Mat or Crust (B4)		Presence of Redu	(	,			v Aquitard (D3)
	eposits (B5)		Recent Iron Redu			,		eutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		01) ( <b>LRR</b> )	<b>A</b> )		Ant Mounds (D6) (LRR A)
	ation Visible on Aerial Im ely Vegetated Concave S		Other (Explain in	Remarks)			Frost-F	leave Hummocks (D7)
Sparse	ely vegetated Colicave a	Sunace (Do	)					
	ervations:							
	/ater Present? Yes	No	· · ·	-				
	ble Present? Yes _	No	· · ·	-		<b>M</b> 4		
Saturation	-	No	X Depth (Ind	ches): >1	0	wetla	na Hyarology F	Present? Yes <u>No X</u>
•	capillary fringe) Recorded Data (stream g	jauge, mon	itoring well, aerial pho	tos, previous	s inspectio	ons), if a	vailable	
Remarks:								

Project/Site: Newport	Project/Site: Newport Municipal Airport			City/Cou	unty: Newport			Sampling Date	e: 24-Sep	o-2019
Applicant/Owner: 0	City of Newp	ort				State:	OR	Sampling Poir	nt: 12	20
Investigator(s): L. Joh	nnson, A. Br	ophy		Section	n, Township, Rang	e: Sectio	n 29, To	ownship 11 S, F	Range 11 S	
Landform (hillslope, to	errace, etc.)	: hillslope		Local reli	ef (concave, conv	ex, none):	Concav	e S	Slope (%):	1
Subregion (LRR): A	A2 - Willam	ette Valley	Lat:	44.58974087		Long: -124	4.04759	25 E	Datum: NAD8	3
Soil Map Unit Name:	Lint silt loa	am, 5 to 25 percent	t slopes			NW	l classif	ication: none		
Are climatic / hydrolog	gic condition	ns on the site typica	al for this t	ime of year?	Yes No 2	X (If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	antly disturbed?	Are "Norma	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturall	y problematic?	(If needed,	explain ar	iy answ	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Pomarka: Pasardad presipitation i		mont	a was bolow porm	al rango			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

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Sampling Point: 120

	th needed to document the indicator or confirm th	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	$\frac{\text{Color (moist)}}{5 \text{ yr } 3/4} \qquad \frac{\%}{4} \qquad \frac{\text{Type}^1}{\text{C}} \qquad \frac{\text{Loc}^2}{\text{Pl}}$	Texture Remarks
0-16 10 yr 4/2 96	5yr 3/4 4 C PI	Silt loam
	·	
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Soi	Present? Yes X No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
	d; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require	d; check all that apply) Water-Stained Leaves (B9) ( <b>except MLRA</b>	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators:		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required)         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (Market Concave Surface (Market Concave Surface (Market Concave Surface Concave Surface (Market Concave Surface Concave Surface (Market C	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (Market Concave Surface C	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (Concave Surfa	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (Concave Surfa	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B2)         Sparsely Vegetated Concave Surface (Concave Surfa	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) O Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Gaturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) X Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (0)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Gaturation Present?       Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         X Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Y)       Other (Explain in Remarks)         B8)         No       X         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (0)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Gaturation Present?       Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         X Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Y)       Other (Explain in Remarks)         B8)         No       X         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpor	Project/Site: Newport Municipal Airport			City/Coun	ty: Newport			Sampling Dat	te: 24-Se	o-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poi	nt: 12	21
Investigator(s): A. Br	rophy			Section,	Township, Range	: Sectio	n 29, To	ownship 11 S, I	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief	(concave, conve	x, none):	Concav	e s	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44	.58972257		Long: <u>-12</u> 4	1.04764	92 I	Datum: NAD8	3
Soil Map Unit Name	: Lint silt	loam, 5 to 25 percen	t slopes			NW	l classif	ication: none		
Are climatic / hydrole	ogic condi	tions on the site typic	al for this tim	e of year? Ye	es <u>No X</u>	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significant	ly disturbed?	Are "Norma	I Circumst	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally p	problematic?	(If needed,	explain an	iy answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Distaire) (a. D)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2	(A)
2					
3				Total Number of Dominant	
4				Species Across All Strata: 4	(B)
	:	= Total Cover			
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Gaultheria shallon	2	X	FACU	That Are OBL, FACW, or FAC: 50.00	(A/B)
2. Rubus armeniacus	3	Х	FAC		
3. Vaccinium ovatum	5	Χ	FACU	Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	_
5				OBL species x 1=	_
	10	= Total Cover		FACW species x 2=	_
Herb Stratum (Plot size: 3m R)				FAC species <u>3</u> x 3= <u>9</u>	_
1. Plantago lanceolata	5		FACU	FACU species X 4= 172	
2. Polystichum munitum	1		FACU	UPL species x 5=	
3. Agrostis capillaris	30	Х	FAC	Column Totals: 46 (A) 181	(B)
4.					
5.				Prevalence Index = $B/A = 3.93$	
6.				Hydrophytic Vegetation Indicators:	
7.				1- Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide su	pporting
44				data in Remarks or on a separate sheet	
III	36	= Total Cover		5- Wetland Non-Vascular Plants ¹	.)
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Ex	(plain)
1				¹ Indicators of hydric soil and wetland hydrolo	• •
2.				be present, unless disturbed or problematic.	gy must
۲					
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes <u>No</u>	X
				Present?	
Remarks:					

US Army Corps of Engineers

Sampling Point: 121

									· · ·	_
Profile Des	scription: (Describe	to the depth	needed to do	cument th	e indicat	or or coi	nfirm the	e absence of inc	dicators.)	
Depth	Matrix			Redox	Features					
		0/	Color (mo			Tune ¹	Loc ²	Taxtura	Bemerke	
(inches) 0-13	Color (moist) 10 yr 3/2	- %	Color (mo	151)	%	Type ¹	LUC	Texture Silt loam	Remarks	
		100								
13-16	10 yr 3/1	100						Silt loam		
¹ Type: C=	Concentration, D=Dep	pletion, RM=R	educed Matri	k, CS=Cov	ered or Co	bated Sa	nd Grain	is. ² Lo	cation: PL=Pore Lining, M=M	atr
Hydric Soil	Indicators: (Applica	able to all LR	Rs, unless of	herwise n	oted.)			Indicators for	Problematic Hydric Soils ³ :	
Histoso	ol (A1)		Sandy Redo	x (S5)				2 cm Muck	: (A10)	
	Epipedon (A2)		Stripped Mat						t Material (TF2)	
	Histic (A3)		-				1		ow Dark Surface (TF12)	
	( )		Loamy Muck	•			(1)			
	gen Sulfide (A4)		Loamy Gleye		-2)			Other (Exp	lain in Remarks)	
·	ed Below Dark Surfac	e (A11)	Depleted Ma							
	Dark Surface (A12)		Redox Dark		,				ydrophytic vegetation and	
Sandy	Mucky Mineral (S1)		Depleted Da	rk Surface	(F7)			wetland hy	drology must be present,	
Sandy	Gleyed Matrix (S4)		Redox Depre	essions (F8	3)			unless dist	urbed or problematic.	
Restrictive	Layer (if present):									
Type:	<i>,</i> , , , , , , , , , , , , , , , , , ,									
	(inches):		-			Hvo	Iric Soil	Present? Y	es No X	
•	· · ·					-				
Remarks:										
HYDROLO										
-	drology Indicators:									
Primary Inc	dicators (minimum of	one required;	check all that	apply)			_	Secondary	Indicators (2 or more require	d)
Surface	e Water (A1)		Water-St	ained Leav	es (B9) ( <b>e</b>	xcept M	LRA	Water-S	Stained Leaves (B9) ( <b>MLRA 1</b>	, 2,
High W	/ater Table (A2)		1, 2, 4A	, and 4B)				4A, a	and 4B)	
Satura	tion (A3)		Salt Crus	t (B11)				Drainag	e Patterns (B10)	
Water	Marks (B1)		Aquatic I	nvertebrate	es (B13)			Dry-Sea	ason Water Table (C2)	
Sedime	ent Deposits (B2)		Hydroger	Sulfide O	dor (C1)			Saturati	on Visible on Aerial Imagery	(C9)
Drift De	eposits (B3)		Oxidized	Rhizosphe	res along	Living Ro	oots (C3	) Geomo	rphic Position (D2)	
Algal M	lat or Crust (B4)		Presence	of Reduce	ed Iron (C4	4)		Shallow	Aquitard (D3)	
Iron De	eposits (B5)		Recent Ir	on Reducti	on in Tille	d Soils (0	C6)	FAC-Ne	eutral Test (D5)	
Surface	e Soil Cracks (B6)		Stunted of	or Stressed	Plants (D	1) ( <b>LRR</b>	<b>A</b> )	Raised	Ant Mounds (D6) (LRR A)	
Inunda	tion Visible on Aerial I	magery(B7)	Other (E)	plain in Re	emarks)			Frost-H	eave Hummocks (D7)	
Sparse	ely Vegetated Concave	e Surface (B8	)					_		
Field Obse	ervations:									
Surface W	ater Present? Yes	No	X D	epth (Inche	es): NA	λ				
Water Tab	le Present? Yes	No		epth (Inche	· · · · · · · · · · · · · · · · · · ·	6				
Saturation	Present? Yes	No		epth (Inche	· · · · · · · · · · · · · · · · · · ·	6	Wetla	nd Hydrology P	resent? Yes No 🕅	(
(includes c	apillary fringe)					—				
Describe R	Recorded Data (stream	n gauge, mon	toring well, a	erial photos	, previous	inspecti	ons), if a	available		
Remarks:										

Project/Site: Newpor	Project/Site: Newport Municipal Airport			City/Coun	ity: Newport			Sampling Date	e: 24-Sep	-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poir	nt: 12	2
Investigator(s): A. Br	rophy			Section,	Township, Range	Sectio	n 29, To	wnship 11 S, F	Range 11 S	
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief	(concave, conve	k, none):	Concav	e S	Slope (%):	1
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 4	14.58808823	I	ong: -124	1.052119	93 C	Datum: NAD83	3
Soil Map Unit Name	: Nelsco	tt loam, 3 to 12 perce	nt slopes			NW	l classifi	cation: none		
Are climatic / hydrolo	ogic condi	tions on the site typic	al for this ti	me of year? Ye	es No X	(If no	, explaiı	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significa	ntly disturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally	problematic?	(If needed, e	explain an	y answe	ers in Remarks.	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Demontra: Deserved presinitation i							

Remarks: Recorded precipitation in previous months was below normal range

## VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species	
1. Alnus rubra	95	Х	FAC	That Are OBL, FACW, or FAC: 3	(A)
2.					
3.				Total Number of Dominant	
4.				Species Across All Strata: 4	(B)
	95	= Total Cover			
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Vaccinium parvifolium	20	Х	FACU	That Are OBL, FACW, or FAC: 75.00	(A/B)
2. Rubus spectabilis	15	Х	FAC		
3.				Prevalence Index worksheet:	
4.				Total % Cover of: Multiply by	:
5.				OBL species x 1=	
	35	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 3m R)				FAC species x 3=	
1. Lysichiton americanus	10	Х	OBL	FACU species x 4=	
2. Polystichum munitum	1		FACU	UPL species x 5=	
3				Column Totals: (A)	(B)
1					(-)
5				Prevalence Index = $B/A = 0$	
6.				Hydrophytic Vegetation Indicators:	
7.				1- Rapid Test For Hydrophytic Vegetation	n
8.				X 2- Dominance Test is >50%	
0				3- Prevalence Index is ≤3.0 ¹	
9 10.				4- Morphological Adaptations ¹ (Provide s	supporting
				data in Remarks or on a separate she	
11	11	= Total Cover		5- Wetland Non-Vascular Plants ¹	01)
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (	Explain)
				¹ Indicators of hydric soil and wetland hydrol	oav must
2.				be present, unless disturbed or problematic	
		Tatal Causer			-
% Data Crowned in Llark Stratum		= Total Cover		Hydrophytic Vegetation Yes X No	
% Bare Ground in Herb Stratum				Vegetation Yes <u>X</u> No Present?	
				רופטפוונ:	
Remarks:					

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Sampling Point:

SOIL		Sampling Point: 122
Profile Description: (Describe to the depth	needed to document the indicator or confirm th	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-10 10 yr 2/1 100		Mucky sand high organics
10-16 10yr 3/1 100		Loamy sand high organics
		21
	Reduced Matrix, CS=Covered or Coated Sand Grain	
Hydric Soil Indicators: (Applicable to all LF	rrs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	– Hydric Soil	Present? Yes X No
Demorko	-	
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
X High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
X Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	X Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B	3)	—
Field Observations:		
Surface Water Present? Yes N	o X Depth (Inches): NA	
	o X Depth (Inches): NA o Depth (Inches): 11	
Water Table Present? Yes X N	Depth (Inches): 11	nd Hydrology Present? Yes <u>X</u> No
Water Table Present? Yes X N	o Depth (Inches): 11	nd Hydrology Present? Yes X No
Water Table Present?     Yes     X     N       Saturation Present?     Yes     X     N       (includes capillary fringe)	o Depth (Inches): 11	
Water Table Present?     Yes     X     N       Saturation Present?     Yes     X     N       (includes capillary fringe)	o Depth (Inches): 11 o Depth (Inches): Surface Wetla	
Water Table Present?     Yes     X     N       Saturation Present?     Yes     X     N       (includes capillary fringe)	o Depth (Inches): 11 o Depth (Inches): Surface Wetla	

Project/Site: Newport Municipal Airport			City/C	City/County: Newport				Sampling Date:		24-Sep-2019			
Applicant/Owner: Cit	y of Newpo	rt			-		5	State:	OR	Sampling F	oint:	1:	23
Investigator(s): A. Brop	hy			Section	on, Town	ship, Ran	ge:	Section	n 29, To	ownship 11 S	5, Rang	e 11 S	
Landform (hillslope, ter	race, etc.):	hillslope		Local re	elief (con	cave, con	vex, r	none): r	none		Slope	e (%):	15
Subregion (LRR): A2	- Willamet	te Valley	Lat: 4	4.5880278			Lor	ng: -124	.05213	08	Datur	n: NAD8	3
Soil Map Unit Name:	Nelscott loa	m, 3 to 12 percent	slopes					NWI	classif	ication: non	e		
Are climatic / hydrologic	c conditions	on the site typical	for this tir	me of year?	Yes	No	Х	(If no	, explai	n in Remarks	s.)		
Are Vegetation	Soil c	or Hydrology	significa	ntly disturbed	?	Are "Norn	nal Ci	rcumst	ances"	present' Yes	s X	No	
Are Vegetation	Soil c	or Hydrology	naturally	problematic?		(If needeo	d, exp	lain an	y answe	ers in Remar	ks.)		

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes X	No No No	X X	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks: On steep slope that drain	ns well, geolog	gy is per	meable bed	rock, dug on table that likely	perches wate	er
Recorded precipitation in	previous mo	nths was	s below norm	nal range		

#### VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: 10m R) % Cover Species? Status Number of Dominant Species 1. Alnus rubra 15 FAC That Are OBL, FACW, or FAC: 4 (A) 20 FACU 2. Tsuga heterophylla 3. Pseudotsuga menziesii 75 FACU Total Number of Dominant Х 4. Species Across All Strata: 4 (B) 110 = Total Cover Sapling/Shrub Stratum (Plot size: 5m R) Percent of Dominant Species 1. Vaccinium parvifolium 20 FACU Х That Are OBL, FACW, or FAC: 100.00 (A/B) 2. Vaccinium ovatum FACU 15 Х 3. Gaultheria shallon 15 Х FACU Prevalence Index worksheet: 4. Total % Cover of: Multiply by: OBL species 5. x 1= 50 = Total Cover FACW species x 2= Herb Stratum (Plot size: 3m R) FAC species 15 x 3= 45 FACU species 145 1. x 4= 580 2. UPL species x 5= Column Totals: 160 625 3 (A) (B) 4 5. Prevalence Index = B/A = 3.91 6 Hydrophytic Vegetation Indicators: 1- Rapid Test For Hydrophytic Vegetation 7. X 2-Dominance Test is >50% 8. 3- Prevalence Index is $\leq 3.0^1$ 9. 4- Morphological Adaptations¹ (Provide supporting 10. data in Remarks or on a separate sheet) 11. = Total Cover 5-Wetland Non-Vascular Plants¹ Woody Vine Stratum 6- Problematic Hydrophytic Vegetation¹(Explain) (Plot size: R) ¹ Indicators of hydric soil and wetland hydrology must 1. 2 be present, unless disturbed or problematic. = Total Cover Hydrophytic % Bare Ground in Herb Stratum 60 Vegetation Yes No X Present? On steep slope that drains well, geology is permeable bedrock, dug on table that likely perches water Remarks:

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Sampling Point: 123

	pth needed to document the indicator or confirm the	a abaanaa of indicatora )			
		e absence of indicators.)			
Depth Matrix	Redox Features				
		Taxtura			
(inches) Color (moist) % 0-2 7.5yr 2.5/2 100		Texture Remarks			
<u>2-4</u> <u>10yr 2/1</u> <u>100</u>		Sand loam			
4-16 10yr 3/1 100	)	Sand loam			
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, CS=Covered or Coated Sand Grai	ns. ² Location: PL=Pore Lining, M=Matr			
Hydric Soil Indicators: (Applicable to al		Indicators for Problematic Hydric Soils ³ :			
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)			
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)			
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)			
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)			
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)				
Thick Dark Surface (A12)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and			
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,			
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.			
Restrictive Layer (if present):					
Type:					
Depth (inches):	Hydric Soi	l Present? Yes No X			
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:					
	red; check all that apply)	Secondary Indicators (2 or more required)			
Primary Indicators (minimum of one requi		Secondary Indicators (2 or more required)			
Primary Indicators (minimum of one requi Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stand Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Staned Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)			
Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(E	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)			
Primary Indicators (minimum of one requi         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(E         Sparsely Vegetated Concave Surface	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)			
Primary Indicators (minimum of one requi         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(E         Sparsely Vegetated Concave Surface         Field Observations:	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) 0 (B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)			
Primary Indicators (minimum of one requi         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(E         Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)			
Primary Indicators (minimum of one requi         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(E         Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?         Yes         Water Table Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			
Primary Indicators (minimum of one requi         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(E         Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Xaturation Present?         Yes         Xaturation Present?         Yes         Xaturation Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			
Primary Indicators (minimum of one requi         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(E         Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Xaturation Present?         Yes         Xaturation Present?         Yes         Xaturation Present?	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         37)         Other (Explain in Remarks)         (B8)         No       Depth (Inches): NA         No       Depth (Inches): 2	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			
Primary Indicators (minimum of one requi         Surface Water (A1)         High Water Table (A2)         X Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(E         Sparsely Vegetated Concave Surface         Field Observations:         Surface Water Present?         Yes         Water Table Present?         Yes         Xaturation Present?         Yes         Xaturation Present?         Yes         Xaturation Present?	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         37)         Other (Explain in Remarks)         (B8)         No       Depth (Inches): NA         No       Depth (Inches): 2	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			

Project/Site: Newport Municipal Airport			City/County	City/County: Newport				te: 24-S	24-Sep-2019	
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poi	int:	124
Investigator(s): A. Br	Section, To	ownship, Range	: Sectio	n 29, T	ownship 11 S, I	Range 11 S				
Landform (hillslope,	terrace, e	tc.): hillslope		Local relief (	concave, conve	x, none):	none	:	Slope (%):	15
Subregion (LRR):	A2 - Will	amette Valley	Lat: 44.58	3785823		Long: <u>-12</u> 4	4.05233	72	Datum: NAD	83
Soil Map Unit Name	: Nelsco	tt loam, 12 to 50 perce	ent slopes			NW	l classif	ication: none		
Are climatic / hydrold	ogic cond	itions on the site typic	al for this time o	of year? Yes	s No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly of	disturbed?	Are "Norma	I Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prot	blematic?	(If needed,	explain ar	iy answ	ers in Remarks	5.)	

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

Hydrophytic Vegetation Present?	Yes x	( No				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area		
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	<u>No X</u>
Remarks: Recorded precipitation in	n previous mo	onthe was	below norm	al range		

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Pinus contorta	15	х	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Tsuga heterophylla	15	x	FACU	
3. Alnus rubra	35	Х	FAC	Total Number of Dominant
4 Picea sitchensis	15	х	FAC	
5 Frangula purshiana	15	x	FAC	Species Across All Strata: 7 (B)
	95	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus spectabilis	5		FAC	That Are OBL, FACW, or FAC: 57.14 (A/B)
2. Rubus parviflorus	10		FACU	
3. Gaultheria shallon	45	Х	FACU	Prevalence Index worksheet:
4 Rubus ursinus	5		FACU	
5 Rubus armeniacus	5		FAC	Total % Cover of: Multiply by:
6 Cytisus scoparius 10			NL	OBL species x 1=
	70	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species $60 \times 3 = 180$
1. Pteridium aguilinum	3	х	FACU	FACU species 73 x $4=292$
2.				UPL species $x 5 =$
2				
3				Column Totals: <u>133</u> (A) <u>472</u> (B)
4				Prevalence Index = B/A = 3.55
5				
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	3	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1.				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		
% Data Craund in Llath Stratum 62		= rotal Cover		Hydrophytic
% Bare Ground in Herb Stratum 60				Vegetation Yes <u>x</u> No
				Present?
Remarks:				

Sampling Point: 124

Profile Description: (Describe to the dep						
	th needed to document the indicator or confirm the	e absence of indicators.)				
Depth Matrix	Redox Features					
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks				
0-4 7.5yr 3/3 100		Sand loam				
4-16 10yr 3/4 100		Loamy sand				
¹ Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, CS=Covered or Coated Sand Grain	s. ² Location: PL=Pore Lining, M=Matr				
Hydric Soil Indicators: (Applicable to all I		Indicators for Problematic Hydric Soils ³ :				
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)				
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)				
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)				
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)				
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and				
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,				
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.				
		•				
Restrictive Layer (if present):						
Туре:	_					
Depth (inches):	Hydric Soil	Present? Yes No X				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	d; check all that apply)	Secondary Indicators (2 or more required)				
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,				
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)				
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)				
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)				
	Librahan ana a Orulfiata Ordana (O4)					
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)				
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)					
Drift Deposits (B3)	Oxidized Rhizospheres along Living Roots (C3)	Geomorphic Position (D2)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Oxidized Rhizospheres along Living Roots (C3)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C6)     Stunted or Stressed Plants (D1) (LRR A)	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Oxidized Rhizospheres along Living Roots (C3)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C6)     Stunted or Stressed Plants (D1) (LRR A)     Other (Explain in Remarks)	)Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Oxidized Rhizospheres along Living Roots (C3)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C6)     Stunted or Stressed Plants (D1) (LRR A)     Other (Explain in Remarks)	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7	Oxidized Rhizospheres along Living Roots (C3)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C6)     Stunted or Stressed Plants (D1) (LRR A)     Other (Explain in Remarks)	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations:	Oxidized Rhizospheres along Living Roots (C3)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C6)     Stunted or Stressed Plants (D1) (LRR A)     Other (Explain in Remarks)     No X Depth (Inches): NA	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes	Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       NA         No       X	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       NA         No       X	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       NA         No       X         Depth (Inches):       NA         Wetland	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) nd Hydrology Present? Yes No X				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       NA         No       X	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) nd Hydrology Present? Yes No X				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       NA         No       X         Depth (Inches):       NA         Wetland	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) nd Hydrology Present? Yes No X				
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(B7 Sparsely Vegetated Concave Surface (I Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Oxidized Rhizospheres along Living Roots (C3)         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       NA         No       X         Depth (Inches):       NA         Wetland	) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) nd Hydrology Present? Yes No X				

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, To	wnship, Ra	nge: Section 29, Township 11 S, Range 11 S
Landform (hillslope, terrace, etc.): roadside ditch		Local relief (c	oncave, co	nvex, none): concave Slope (%): 0
Subregion (LRR): A2 - Willamette Valley	Lat: 44.587	787573		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 f	or this time of	year? Yes	No	X (If no, explain in Remarks.)
Are Vegetation Soil or Hydrology	significantly di	sturbed?	Are "Noi	rmal Circumstances" present' Yes X No
Are Vegetation Soil or Hydrology	naturally probl	ematic?	(If neede	ed, explain any answers in Remarks.)
				and in the sector in the stand for the sector of the
SUMMARY OF FINDINGS – Attach site in	hap snowir	ig samplin	g point i	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No <u>X</u>			
Hydric Soil Present? Yes X	No	Is the	Sampled A	Area
Wetland Hydrology Present? Yes X	No	within	a Wetland	? Yes <u>X</u> No
Remarks: ditch like feature with veg that is barely u	pland			
Recorded precipitation in previous month		ormal range		
Roadside ditch slope wetland. Hydro fror	m slope seeps	and road rund	off. Surface	water present in wetland.
VEGETATION – Use scientific names of	plants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Frangula purshiana	15	<u> </u>	FAC	That Are OBL, FACW, or FAC: 2 (A)
2. Tsuga heterophylla	20		FACU	
3. Alnus rubra	75	X	FAC	Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	110	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus spectabilis	5		FAC	That Are OBL, FACW, or FAC: 50.00 (A/B)
2. Rubus parviflorus	10	х	FACU	
3. Gaultheria shallon	30	Х	FACU	Prevalence Index worksheet:
4.				Total % Cover of: Multiply by:
5.				OBL species x 1=
	45	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 70 x 3= 210
1. Blechnum spicant	50	Х	FAC	FACU species 63 x 4= 252
2. Pteridium aquilinum	3		FACU	UPL species x 5=
3.				Column Totals: 133 (A) 462 (B)
4.				
5	_			Prevalence Index = $B/A = 3.47$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	53	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 25				Vegetation Yes No X
				Present?

US Army Corps of Engineers

Profile Description: (Describe to the dep	th needed to document	the indicate	or or con	firm the	e absence of indic	ators.)				
Depth Matrix	Redo	x Features								
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks				
0-3         10yr 3/3         100           3-16         10yr 5/1         90	5yr 5/8	10	C	M	Sand loam					
3-16 10yr 5/1 90	5yi 5/6	10	<u> </u>	IVI	Loamy sand					
¹ Type: C=Concentration, D=Depletion, RM			ated Sar	nd Grain		tion: PL=Pore Lining, M=Matr				
Hydric Soil Indicators: (Applicable to all I	_RRS, unless otherwise	noted.)			Indicators for Pi	oblematic Hydric Soils ³ :				
Histosol (A1)	Sandy Redox (S5)				2 cm Muck (A					
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Parent N					
Black Histic (A3)	Loamy Mucky Minera		pt MLRA	. 1)		Dark Surface (TF12)				
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (Explai	n in Remarks)				
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)				de d'antena af level	namba dia sanata dia manad				
	Thick Dark Surface (A12) Redox Dark Surface (F6) Indicators of hydrophytic vegetation ar									
Sandy Gleyed Matrix (S4)	Sandy Mucky Mineral (S1)         Depleted Dark Surface (F7)         wetland hydrology must be present,           Sandy Gleyed Matrix (S4)         Redox Depressions (F8)         unless disturbed or problematic.									
		0)								
Restrictive Layer (if present):										
Туре:										
Depth (inches):			Hyd	ric Soil	Present? Yes	<u>X</u> No				
Remarks:										
HYDROLOGY										
Wetland Hydrology Indicators:										
Primary Indicators (minimum of one require	d; check all that apply)				Secondary In	dicators (2 or more required)				
Surface Water (A1)	Water-Stained Lea	aves (B9) ( <b>e</b>	xcept MI	_ LRA	-	ined Leaves (B9) (MLRA 1, 2,				
X High Water Table (A2)	1, 2, 4A, and 4E				4A, an					
X Saturation (A3)	Salt Crust (B11)				Drainage	Patterns (B10)				
Water Marks (B1)	Aquatic Invertebra	ites (B13)			Dry-Seaso	on Water Table (C2)				
Sediment Deposits (B2)	Hydrogen Sulfide					Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Oxidized Rhizosph	-	-	oots (C3)		nic Position (D2)				
Algal Mat or Crust (B4)	Presence of Redu		,			quitard (D3)				
Iron Deposits (B5)	Recent Iron Reduc		``	,		ral Test (D5)				
Surface Soil Cracks (B6)	Stunted or Stresse	-	1) ( <b>LRR</b> /	<b>A</b> )		t Mounds (D6) ( <b>LRR A</b> )				
Inundation Visible on Aerial Imagery(B7	· · · ·	(kemarks)			Frost-Hea	ve Hummocks (D7)				
Sparsely Vegetated Concave Surface (	D0)									
Field Observations:	N N									
Surface Water Present? Yes	No X Depth (Inc No Depth (Inc	-	<u>`</u>							
	NO Depth (Inc	hes): 8								
Water Table Present? Yes X		hooly Surfa		Watle	nd Uvdralaav Dra	aant? Vaa V Na				
Saturation Present? Yes X	No Depth (Inc	hes): Surfa	ice	Wetla	nd Hydrology Pre	sent? Yes <u>X</u> No				
	No Depth (Inc					sent? Yes <u>X</u> No				
Saturation Present? Yes X (includes capillary fringe)	No Depth (Inc					sent? Yes <u>X</u> No				

Project/Site: Newport Municipal Airport			City/County:	Newport			Sampling Dat	te: 25-Se	ep-2019		
Applicant/Owner:	City of Nev	wport				State:	OR	Sampling Poi	nt:	126	
Investigator(s): A. Br	Section, Tov	vnship, Range:	Sectio	n 29, To	ownship 11 S, I	Range 11 S					
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (cc	oncave, conve	, none):	Concav	e s	Slope (%):	0	
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.58	734367	L	ong: -124	1.05670	68 I	Datum: NAD	83	
Soil Map Unit Name	Nelscot	loam, 12 to 50 perc	ent slopes			NW	l classif	ication: PSSC			
Are climatic / hydrold	ogic condit	ions on the site typic	al for this time of	f year? Yes	No X	(lf no	, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	iy answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Demontras Descrided presidentian							

Dominance Test worksheet:

Remarks: Recorded precipitation in previous months was below normal range

# VEGETATION – Use scientific names of plants. Image: Image:

Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Alnus rubra	55	Х	FAC	That Are OBL, FACW, or FAC: 4 (A)
2				
3				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	55	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Rubus ursinus	10	X	FACU	That Are OBL, FACW, or FAC: 80.00 (A/B)
2. Rubus armeniacus	10	Х	FAC	
3. Lonicera involucrata	20	Х	FAC	Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5.	• • • • • • • • • • • • • • • • • • •			OBL species x 1=
	40	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species x 3=
1. Athyrium cyclosorum	5		FAC	FACU species x 4=
2. Carex obnupta	95	Х	OBL	UPL species x 5=
3.				Column Totals: (A) (B)
4				
5.				Prevalence Index = $B/A = 0$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
0				X 2- Dominance Test is >50%
o 9.				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
10				data in Remarks or on a separate sheet)
····	100	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must
1 2.				be present, unless disturbed or problematic.
Z				
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point: 126

Profile De								
	scription: (Describe to	the depth ne	eded to document	the indicate	or or cor	nfirm the	absence of ir	dicators.)
Depth	Matrix		Red	ox Features				
					<b>T</b> ., 1	1 . 2	Taut	Dema
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
0-3	10yr 2/1	50	7.5yr 5/8	5	С	М	Sandy loam	Mucky with high organic conter
	10yr 4/2	45				<del></del>	Sandy loam	
3-16	10 yr 5/2	85	7.5yr 5/8	15	C	M, pl	Sandy loam	Mucky and greasy with high orc
¹ Type: C=	-Concentration, D=Deple	tion. RM=Red	duced Matrix. CS=C	overed or Co	pated Sa	nd Grain	s. ² L	ocation: PL=Pore Lining, M=Matr
	I Indicators: (Applicabl							r Problematic Hydric Soils ³ :
				moteany			maloutors to	
Histos	ol (A1)	s	andy Redox (S5)				2 cm Muc	k (A10)
Histic	Epipedon (A2)	S	stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black	Histic (A3)		oamy Mucky Miner	al (F1) <b>(exce</b>	pt MLRA	(1)	Very Shal	low Dark Surface (TF12)
	gen Sulfide (A4)		oamy Gleyed Matri		-			plain in Remarks)
	ted Below Dark Surface (		epleted Matrix (F3)	. ,				· · · · · · · · · · · · · · · · · · ·
·	Dark Surface (A12)	· · —	edox Dark Surface				3Indicators of	hydrophytic vegetation and
	Mucky Mineral (S1)		epleted Dark Surface	. ,				ydrology must be present,
Sandy	Gleyed Matrix (S4)	×	edox Depressions	(F8)			unless dis	sturbed or problematic.
Restrictive	e Layer (if present):							
	Eayer (ii present).							
Type:	(inches);				Lbra	uia Cail	Dresset2	
Depth	(inches):				пус	iric Soli	Present?	Yes <u>X</u> No
Remarks:								
HYDROL	OGY							
Wetland H	ydrology Indicators:							
	dicators (minimum of on	e required: ch	eck all that apply)					y Indicators (2 or more required)
	•	e required, cr					Secondar	
	e Water (A1)					<u> </u>		
X High V		-		eaves (B9) ( <b>e</b>	xcept M	_ LRA	Water	Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)	_	1, 2, 4A, and 4		xcept M	 LRA	Water- 4A	Stained Leaves (B9) (MLRA 1, 2, and 4B)
X Satura	ation (A3)	_	<b>1, 2, 4A, and 4</b> Salt Crust (B11)	B)	xcept M	 LRA	Water 4A, Draina	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10)
Water	ation (A3) Marks (B1)	-	1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr	<b>B)</b> ates (B13)	xcept M	 LRA	Water 4A Draina Dry-Se	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) ason Water Table (C2)
Water	ation (A3)	-	1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	<b>B)</b> ates (B13) Odor (C1)			Water 4A Draina Dry-Se Satura	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9)
Water Sedim Drift D	ation (A3) Marks (B1) eent Deposits (B2) eeposits (B3)	-	1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	<b>B)</b> ates (B13) Odor (C1) heres along	Living Ro		Water 4A Draina Dry-Se Satura	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Water Sedim Drift D Algal N	ation (A3) Marks (B1) eent Deposits (B2) Peposits (B3) Mat or Crust (B4)		1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	<b>B)</b> ates (B13) Odor (C1) heres along uced Iron (C4	Living Ro	pots (C3)	Water 4A, Draina Dry-Se Satura Geom	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
Water Sedim Drift D Algal N	ation (A3) Marks (B1) eent Deposits (B2) Peposits (B3) Mat or Crust (B4) eposits (B5)		1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille	Living Ro 1) d Soils (0	00ts (C3)	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Water Sedim Drift D Algal N	ation (A3) Marks (B1) eent Deposits (B2) Peposits (B3) Mat or Crust (B4)		1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille	Living Ro 1) d Soils (0	00ts (C3)	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
Water Sedim Drift D Algal I Iron D Surfac	ation (A3) Marks (B1) eent Deposits (B2) Peposits (B3) Mat or Crust (B4) eposits (B5)	   agery(B7)	1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D	Living Ro 1) d Soils (0	oots (C3) C6)	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Water Sedim Drift D Algal N Iron D Surfac	ation (A3) Marks (B1) eent Deposits (B2) eeposits (B3) Mat or Crust (B4) eposits (B5) the Soil Cracks (B6)		1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D	Living Ro 1) d Soils (0	oots (C3) C6)	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Water Sedim Drift D Algal N Iron D Surfac Inunda Sparse	ation (A3) Marks (B1) Peposits (B2) Mat or Crust (B4) eposits (B5) the Soil Cracks (B6) ation Visible on Aerial Ima ely Vegetated Concave S		1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D	Living Ro 1) d Soils (0	oots (C3) C6)	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Water Sedim Drift D Algal N Iron D Surfac Inunda Sparse Field Obs	ation (A3) Marks (B1) Peposits (B2) Peposits (B3) Mat or Crust (B4) eposits (B5) the Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave S rervations:	Surface (B8)	1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D Remarks)	Living Ro 4) d Soils (( 1) (LRR	oots (C3) C6)	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Water Sedim Drift D Algal N Iron D Surface Field Obs Surface W	ation (A3) Marks (B1) Peposits (B2) Peposits (B3) Mat or Crust (B4) eposits (B5) De Soil Cracks (B6) ation Visible on Aerial Ima ely Vegetated Concave S pervations: /ater Present? Yes	Surface (B8)	1, 2, 4A, and 4         Salt Crust (B11)         Aquatic Invertebr         Hydrogen Sulfide         Oxidized Rhizosp         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (In	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille ed Plants (D Remarks) ches): <u>N</u>	Living Ro 4) d Soils (0 1) (LRR	oots (C3) C6)	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) prphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
Water Sedim Drift D Algal N Iron D Surface Field Obs Surface W Water Tab	ation (A3) Marks (B1) leent Deposits (B2) leeposits (B3) Mat or Crust (B4) eposits (B5) lee Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave S cervations: /ater Present? Yes ble Present? Yes	Surface (B8) No XNo	1, 2, 4A, and 4         Salt Crust (B11)         Aquatic Invertebr         Hydrogen Sulfide         Oxidized Rhizosp         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (In         Depth (In	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D Remarks) ches): <u>N4</u> ches): <u>10</u>	Living Ro 4) d Soils (0 1) (LRR	bots (C3) C6) <b>A</b> )	Water- 4A Draina Dry-Se Satura Geomo FAC-N Raiseo Frost-I	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Water Sedim Drift D Algal N Iron D Surface Surface W Water Tab Saturation	ation (A3) Marks (B1) leent Deposits (B2) leeposits (B3) Mat or Crust (B4) eposits (B5) se Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave S servations: //ater Present? Yes ble Present? Yes n Present? Yes	Surface (B8)	1, 2, 4A, and 4         Salt Crust (B11)         Aquatic Invertebr         Hydrogen Sulfide         Oxidized Rhizosp         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (In         Depth (In	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille ed Plants (D Remarks) ches): <u>N</u>	Living Ro 4) d Soils (0 1) (LRR	bots (C3) C6) <b>A</b> )	Water 4A, Draina Dry-Se Satura Geom Shallo FAC-N Raiseo	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Water Sedim Drift D Iron D Surfac Surface <b>Field Obs</b> Surface W Water Tab Saturation (includes o	ation (A3) Marks (B1) leent Deposits (B2) leeposits (B3) Mat or Crust (B4) eposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave S cervations: /ater Present? Yes ble Present? Yes ch Present? Yes capillary fringe)	Surface (B8) No X No X No	1, 2, 4A, and 4         Salt Crust (B11)         Aquatic Invertebr         Hydrogen Sulfide         Oxidized Rhizosp         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (In         Depth (In         Depth (In	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D Remarks) ches): <u>N4</u> ches): <u>10</u> ches): <u>Surfa</u>	Living Ro 4) d Soils (0 1) ( <b>LRR</b>	Dots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura Geome Shallo FAC-N Raisec Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Water Sedim Drift D Iron D Surfac Surface <b>Field Obs</b> Surface W Water Tab Saturation (includes o	ation (A3) Marks (B1) leent Deposits (B2) leeposits (B3) Mat or Crust (B4) eposits (B5) se Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave S servations: //ater Present? Yes ble Present? Yes n Present? Yes	Surface (B8) No X No X No	1, 2, 4A, and 4         Salt Crust (B11)         Aquatic Invertebr         Hydrogen Sulfide         Oxidized Rhizosp         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (In         Depth (In         Depth (In	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D Remarks) ches): <u>N4</u> ches): <u>10</u> ches): <u>Surfa</u>	Living Ro 4) d Soils (0 1) ( <b>LRR</b>	Dots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura Geome Shallo FAC-N Raisec Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Water Sedim Drift D Algal M Iron D Surface Surface W Water Tab Saturation (includes o Describe F	ation (A3) Marks (B1) leent Deposits (B2) leeposits (B3) Mat or Crust (B4) eposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave S cervations: /ater Present? Yes ble Present? Yes ch Present? Yes capillary fringe)	Surface (B8) No X No X No	1, 2, 4A, and 4         Salt Crust (B11)         Aquatic Invertebr         Hydrogen Sulfide         Oxidized Rhizosp         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (In         Depth (In         Depth (In	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D Remarks) ches): <u>N4</u> ches): <u>10</u> ches): <u>Surfa</u>	Living Ro 4) d Soils (0 1) ( <b>LRR</b>	Dots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura Geome Shallo FAC-N Raisec Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)
Water Sedim Drift D Algal N Iron D Surface Surface W Water Tab Saturation (includes of	ation (A3) Marks (B1) leent Deposits (B2) leeposits (B3) Mat or Crust (B4) eposits (B5) ce Soil Cracks (B6) ation Visible on Aerial Im- ely Vegetated Concave S cervations: /ater Present? Yes ble Present? Yes ch Present? Yes capillary fringe)	Surface (B8) No X No X No	1, 2, 4A, and 4         Salt Crust (B11)         Aquatic Invertebr         Hydrogen Sulfide         Oxidized Rhizosp         Presence of Redu         Recent Iron Redu         Stunted or Stress         Other (Explain in         X       Depth (In         Depth (In         Depth (In	B) ates (B13) Odor (C1) heres along uced Iron (C4 uction in Tille sed Plants (D Remarks) ches): <u>N4</u> ches): <u>10</u> ches): <u>Surfa</u>	Living Ro 4) d Soils (0 1) ( <b>LRR</b>	Dots (C3) C6) A) Wetla	Water- 4A Draina Dry-Se Satura Geome Shallo FAC-N Raisec Frost-F	Stained Leaves (B9) ( <b>MLRA 1, 2,</b> and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) ( <b>LRR A</b> ) Heave Hummocks (D7)

Project/Site: Newpor	Project/Site: Newport Municipal Airport					City/County: Newport			e: 25-Se	p-2019
Applicant/Owner:	City of Ne	ewport		_		State:	OR	Sampling Poi	nt: 1	27
Investigator(s): A. Br	rophy			Section, To	ownship, Range	: Sectio	n 29, T	ownship 11 S, F	Range 11 S	
Landform (hillslope,	Local relief (	concave, conve	x, none):	Convex	x Slope (%): 10					
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	37344	1	_ong: -124	1.05670	7 [	Datum: NAD8	3
Soil Map Unit Name	: Nelsco	tt loam, 12 to 50 perc	ent slopes			NW	l classif	ication: none		
Are climatic / hydrolo	ogic condi	tions on the site typic	al for this time o	of year? Yes	s <u>No X</u>	(lf nc	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norma	Circums	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	(If needed, e	explain ar	y answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of p	lants.			
	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10m R)	% Cover	Species?	Status	Number of Dominant Species
1. Tsuga heterophylla	90	Х	FACU	That Are OBL, FACW, or FAC: (A)
2. Pseudotsuga menziesii	15		FACU	
3. Frangula purshiana	15		FAC	Total Number of Dominant
4				Species Across All Strata: 2 (B)
	120	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Gaultheria shallon	35	X	FACU	That Are OBL, FACW, or FAC:(A/B)
2				
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	35	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 15 x 3= 45
1				FACU species 140 x 4= 560
2.				UPL species x 5=
3.				Column Totals: 155 (A) 605 (B)
4.				
5.				Prevalence Index = $B/A = 3.90$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
		= Total Cover		5-Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes No X
				Present?
Remarks:				

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Sampling Point: 127

Profile Des	cription: (Describ	e to the denth	needed to documen	t the indicate	or or con	firm the	absence of in	odicators )
Depth	Matrix			ox Features				
					Tuno ¹	Loc ²	Texture	Pomorko
(inches) 0-3	Color (moist) Organic duff	%	Color (moist)	%	Type ¹	LOC	Texture	Remarks
3-13	10yr 4/4	100					Sandy loam	Small pebbles of decaying sand
13-16	10yr 2/2	100					Sandy loam	Organic burried a horizon
			educed Matrix, CS=C		ated Sar	nd Grain	s. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soil	Indicators: (Appli	cable to all LR	Rs, unless otherwise	e noted.)			Indicators fo	r Problematic Hydric Soils ³ :
Histoso	ol (A1)		Sandy Redox (S5)				2 cm Muc	:k (A10)
Histic E	Epipedon (A2)		Stripped Matrix (S6)				Red Pare	nt Material (TF2)
Black H	Histic (A3)		Loamy Mucky Miner	al (F1) <b>(exce</b>	ot MLRA	1)	Very Shal	llow Dark Surface (TF12)
Hydrog	en Sulfide (A4)		Loamy Gleyed Matri				Other (Ex	plain in Remarks)
Deplete	ed Below Dark Surfa	ace (A11)	Depleted Matrix (F3)					
Thick D	Dark Surface (A12)		Redox Dark Surface	(F6)			³ Indicators of	hydrophytic vegetation and
Sandy	Mucky Mineral (S1)		Depleted Dark Surfa	ice (F7)			wetland h	ydrology must be present,
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dis	sturbed or problematic.
Postrictivo	Layer (if present):							
Type:	Layer (ii present).							
	(inches):		-		Hyd	ric Soil	Present?	Yes No X
			-		-			
Remarks:								
HYDROLO	JGY							
Wetland Hy	drology Indicators	:						
Primary Inc	dicators (minimum c	of one required;	check all that apply)			_	Secondar	y Indicators (2 or more required)
	e Water (A1)		Water-Stained Le	eaves (B9) ( <b>e</b>	xcept MI	RA	Water-	-Stained Leaves (B9) (MLRA 1, 2,
	ater Table (A2)		1, 2, 4A, and 4	В)			-	, and 4B)
	ion (A3)		Salt Crust (B11)					ge Patterns (B10)
	Marks (B1)		Aquatic Invertebr				<u> </u>	eason Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide		iuina Da	ata (00)		tion Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp Presence of Red	-	-	ots (C3)		orphic Position (D2)
	lat or Crust (B4) posits (B5)		Recent Iron Red		,	6)		w Aquitard (D3) leutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		`	,		d Ant Mounds (D6) (LRR A)
	tion Visible on Aeria	l Imagery(B7)	Other (Explain in		.) (,	•)		Heave Hummocks (D7)
	ly Vegetated Conca	0,0,0		,				
Field Obse	ervations:							
	ater Present? Ye	es No	X Depth (In	ches): NA				
	le Present? Ye		<u> </u>	·				
Saturation			<u> </u>			Wetla	nd Hydrology	Present? Yes No X
<i>c</i>	apillary fringe)							
(includes c	apiliary mige)							
•		am gauge, moni	toring well, aerial pho	otos, previous	inspectio	ons), if a	vailable	
Describe R		am gauge, moni	toring well, aerial pho	otos, previous	inspectio	ons), if a	vailable	
•		am gauge, moni	toring well, aerial pho	otos, previous	inspectio	ons), if a	vailable	

Project/Site: Newport	t Municipal A		City/County: Newport				Sampling Dat	te: 25-S	ep-2019	
Applicant/Owner: 0	City of Newp	ort				State:	OR	Sampling Poi	nt:	128
Investigator(s): L. Joh	Section, Tow	nship, Range:	Sectio	n 29, To	wnship 11 S, F	Range 11 S				
Landform (hillslope, t	Local relief (co	ncave, convex	, none):	Concav	ve Slope (%): 10					
Subregion (LRR): /	A2 - Willame	ette Valley	Lat: 44.56	5239	L	ong: <u>-12</u> 4	1.05936	э [	Datum: NAD	83
Soil Map Unit Name:	Nelscott Ic	am, 12 to 50 perc	ent slopes			NW	l classif	cation: none		
Are climatic / hydrolo	gic conditior	ns on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	х	No
Demorto: Descrided are cipitation i							

Remarks: Recorded precipitation in previous months was below normal range

Tree Stratum (Plot size: 10m R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	60	Х	FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Pseudotsuga menziesii	20	Х	FACU	
3. Frangula purshiana	15		FAC	Total Number of Dominant
4.				Species Across All Strata: 4 (B)
	95	= Total Cover		
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species
1. Gaultheria shallon	40	Х	FACU	That Are OBL, FACW, or FAC: 25.00 (A/B)
2. Rubus spectabilis	5		FAC	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species 90 x 1= 90
	45	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 3m R)				FAC species 25 x 3= 75
1. Carex obnupta	75	Х	OBL	FACU species 123 x 4= 492
2. Blechnum spicant	5		FAC	UPL species x 5=
3. Lysichiton americanus	15		OBL	Column Totals: 238 (A) 657 (B)
4. Menziesia ferruginea	3		FACU	
5				Prevalence Index = $B/A = 2.76$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				2- Dominance Test is >50%
9				X 3- Prevalence Index is $\leq 3.0^{1}$
10				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
	98	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

US Army Corps of Engineers

Sampling Point:

SOIL		Sampling Point: 128
Profile Description: (Describe to the dep	th needed to document the indicator or confirm t	he absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	- ² Texture Remarks
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
	·	
	=Reduced Matrix, CS=Covered or Coated Sand Gra	
Hydric Soil Indicators: (Applicable to all	LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:		
Depth (inches):	Hydric Sc	il Present? Yes X No
Remarks:		
Remarks:	·	
Remarks:	·	
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require		Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) X High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (minimum of the surface surface surface (minimum of the surface surface surface (minimum of the surface surface surface surface surface (minimum of the surface surf	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (Concave Surface (Concave Surface))	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (C)         Field Observations:         Surface Water Present?	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) B8) No X Depth (Inches): NA No Depth (Inches): 11	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (C)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       Saturation Present?       Yes         Katuration Present?       Yes       X         Saturation Present?       Yes       X         (includes capillary fringe)       Yes       X	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       Depth (Inches): NA         No       Depth (Inches): Surface	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (C)         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       Saturation Present?       Yes         Katuration Present?       Yes       X         Saturation Present?       Yes       X         (includes capillary fringe)       Yes       X	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       X         Depth (Inches):       NA         No       Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (Concave (	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       Depth (Inches): NA         No       Depth (Inches): Surface	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (Concave (	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         X Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         B8)         No       Depth (Inches): NA         No       Depth (Inches): Surface	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpor	Project/Site: Newport Municipal Airport					City/County: Newport				ep-2019
Applicant/Owner: 0	City of New	port				State:	OR	Sampling Poi	nt:	129
Investigator(s): L. Jol	Section, Tow	nship, Range:	Sectio	n 29, To	ownship 11 S, I	Range 11 S				
Landform (hillslope, t	Local relief (co	ncave, convex	, none): (	convex	5	Slope (%):	20			
Subregion (LRR):	A2 - Willan	nette Valley	Lat: 44.56	5239	L	ong: <u>-12</u> 4	1.05936	9 <u></u> [	Datum: NAD	83
Soil Map Unit Name:	Nelscott	loam, 12 to 50 perc	ent slopes			NW	l classif	ication: none		
Are climatic / hydrolo	gic conditio	ons on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 10m R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	95	X	FACU	That Are OBL, FACW, or FAC:	1 (A)
2.	- <u> </u>				( )
3.				Total Number of Dominant	
4.				Species Across All Strata:	4 (B)
	95	= Total Cover			
Sapling/Shrub Stratum (Plot size: 5m R)				Percent of Dominant Species	
1. Gaultheria shallon	10	Х	FACU	That Are OBL, FACW, or FAC:	25.00 (A/B)
2					
3				Prevalence Index worksheet:	
4					ultiply by:
5				· · · · · · · · · · · · · · · · · · ·	
	10	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 3m R)				FAC species 2 x 3=	6
1. Menziesia ferruginea	3	X	FACU	FACU species 108 x 4=	432
2. Blechnum spicant	2	Х	FAC	UPL species x 5=	
3	<b>.</b>			Column Totals: <u>110</u> (A)	438 (B)
4					
5				Prevalence Index = B/A =	<u>3.98</u>
6				Hydrophytic Vegetation Indicator	s:
7				1- Rapid Test For Hydrophytic V	egetation
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10	<b>.</b>			4- Morphological Adaptations ¹ (	Provide supporting
11				data in Remarks or on a sepa	,
	5	= Total Cover		5- Wetland Non-Vascular Plants	
Woody Vine Stratum (Plot size: R)				6- Problematic Hydrophytic Veg	
1				¹ Indicators of hydric soil and wetlan	nd hydrology must
2				be present, unless disturbed or pro	blematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 85				Vegetation Yes	No X
				Present?	
Remarks:				-	

US Army Corps of Engineers

Sampling Point: 129

		-	needed to document		or or cor	nfirm the	e absence of ir	dicators.)
Depth	Mat		Redo	x Features				
(inches)	Color (moist	) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	Duff						Duff	Managerata
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 bedi
						_		
1							2.	
			Reduced Matrix, CS=Co Rs, unless otherwise		bated Sa	nd Grain		cation: PL=Pore Lining, M=Matr r Problematic Hydric Soils ³ :
	ol (A1)						2 cm Muo	- k (A10)
	Epipedon (A2)	_	Sandy Redox (S5) Stripped Matrix (S6)				2 cm Muc	nt Material (TF2)
		_		L/E1) (avag		(1)		low Dark Surface (TF12)
	Histic (A3) gen Sulfide (A4)	_	Loamy Mucky Minera Loamy Gleyed Matrix			( 1)		plain in Remarks)
	ed Below Dark Su	urface (A11)	Depleted Matrix (F3)	(F2)			Other (Ex	plain in Remarks)
·	Dark Surface (A12		Redox Dark Surface (	(F6)			³ Indicators of	hydrophytic vegetation and
	Mucky Mineral (S	,	Depleted Dark Surfac	,				ydrology must be present,
	Gleyed Matrix (S	· —	Redox Depressions (I	F8)			unless dis	turbed or problematic.
Restrictive	Layer (if present	t):						
Type:		,						
• •	(inches):		-		Hyd	Iric Soil	Present?	Yes No X
Remarks:			-					
Remarks.								
HYDROL	OGY							
Wetland Hy	ydrology Indicato	ors:						
Primary In	dicators (minimun	n of one required;	check all that apply)			_	Secondar	y Indicators (2 or more required)
Surfac	e Water (A1)		Water-Stained Lea	aves (B9) ( <b>e</b>	xcept M	LRA	Water-	Stained Leaves (B9) (MLRA 1, 2,
High V	Vater Table (A2)		1, 2, 4A, and 4E	3)			4A,	and 4B)
Satura	ition (A3)		Salt Crust (B11)				Draina	ge Patterns (B10)
Water	Marks (B1)		Aquatic Invertebra	tes (B13)			Dry-Se	eason Water Table (C2)
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)				tion Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosph	-	-	oots (C3		orphic Position (D2)
Algal N	Mat or Crust (B4)		Presence of Redu	•	,			w Aquitard (D3)
	eposits (B5)		Recent Iron Redu		•	,		leutral Test (D5)
	e Soil Cracks (B6)		Stunted or Stresse		01) ( <b>LRR</b>	<b>A</b> )		Ant Mounds (D6) (LRR A)
	ation Visible on Ae		Other (Explain in F	Remarks)			Frost-F	Heave Hummocks (D7)
Sparse	ely Vegetated Con	cave Surface (B8	3)					
	ervations:							
		Yes N	· · ·	-				
		Yes N		,				
Saturation		Yes N	o <u>X</u> Depth (Inc	hes): N/	•	Wetla	nd Hydrology	Present? Yes <u>No X</u>
	capillary fringe)		itoring wall parial shat	on province	increati	one) if a	wailable	
Describe f	vecorded Data (St	ream gauge, mon	itoring well, aerial photo	us, previous	mspect	ons), li a		
Remarks:								

Project/Site: Newpo	rt Municipa	al Airport		City/County: City of Newport				Sampling D	Sampling Date:		-2019	
Applicant/Owner:	City of Ne	wport				S	State:	OR	Sampling F	Point:	13	0
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, Tor	wnship, Ran	ige:	Sectio	n 29, To	ownship 11 S	S, Rang	ge 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (c	oncave, con	ivex, r	none): o	concave	9	Slope	e (%):	3
Subregion (LRR):	A2 - Willa	mette Vallet	Lat: 44.571	12		Lon	g: -124	.05707	9	Datu	m: NAD83	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes			-	NWI	classif	ication: Rive	erine		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time of	year? Yes	No	Х	(lf no	, explai	n in Remarks	s.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norr	nal Ci	rcumst	ances"	present' Yes	s X	No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needeo	d, exp	lain an	y answe	ers in Remar	ks.)		

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

Hydrophytic Vegetation Present?	Yes	X No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	x
Remarks: Recorded precipitation in		onthe wor	s bolow porm	al rango	-		

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Alnus rubra	60	1	FAC	That Are OBL, FACW, or FAC: 4 (A)
2.				
3.	·			Total Number of Dominant
4.	·			Species Across All Strata: 5 (B)
	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Alnus rubra	10	1	FAC	That Are OBL, FACW, or FAC: 80.00 (A/B)
2. Gaultheria shallon	25	1	FACU	
3				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5				OBL species x 1=
	35	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Athyrium cyclosorum	5	1	FAC	FACU species x 4=
2. Carex obnupta	1		OBL	UPL species x 5=
3				Column Totals: (A) (B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
	6	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	40	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
	40	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				•

US Army Corps of Engineers

Sampling Point: 130

Profile Description: (Describe to the depth Depth Matrix	needed to document the indicator or confirm the Redox Features	absence of indicators.)
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 7.5 yr 3/2		Silt loam
¹ Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix, CS=Covered or Coated Sand Grain	s. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all LR	Rs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	_Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type: Depth (inches):	Hydric Soil	Present? Yes No X
	-	
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required;	check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4B)	4A, and 4B)
Saturation (A3)	Salt Crust (B11)	Drainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Geomorphic Position (D2) Shallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(B7)	Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8		—
Sparsely vegetated Concave Suitace (Bo	3)	
Field Observations:	s) 	
	, 	
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         N	o <u>X</u> Depth (Inches): <u>NA</u> o <u>X</u> Depth (Inches): <u>&gt;16</u>	
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes	o <u>X</u> Depth (Inches): <u>NA</u> o <u>X</u> Depth (Inches): <u>&gt;16</u>	nd Hydrology Present? Yes <u>No X</u>
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         N       Yes         (includes capillary fringe)	o X Depth (Inches): NA o X Depth (Inches): >16 o X Depth (Inches): >16 Wetlan	
Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Saturation Present?       Yes         N       Yes         (includes capillary fringe)	o <u>X</u> Depth (Inches): <u>NA</u> o <u>X</u> Depth (Inches): <u>&gt;16</u>	

Project/Site: Newpo	rt Municipa	l Airport		City/Co	unty:	City of Nev	vport			Sampling [	Date:	25-Sep-2019
Applicant/Owner:	City of Nev	wport			-			State:	OR	Sampling F	Point:	131
Investigator(s): Luke	e Johnson a	and Amanda Brophy		Sectio	n, Tow	nship, Ran	ge:	Sectio	n 29, To	ownship 11 S	S, Rang	ge 11 S
Landform (hillslope,	terrace, et	c.): floodplain		Local re	ief (co	ncave, con	vex,	none): (	concave	e	Slop	e (%):
Subregion (LRR):	A2 - Willar	nette Vallet	Lat: 44	.571228			Lo	ng: -124	.05706	3	Datu	m: NAD83
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slo	pes				NW	classif	ication: Rive	erine	
Are climatic / hydrol	ogic condit	ions on the site typic	al for this tim	e of year?	Yes	No	Х	(If no	, explai	n in Remark	s.)	
Are Vegetation	Soil	or Hydrology	significant	tly disturbed?		Are "Norr	nal C	ircumst	ances"	present' Yes	s X	No
Are Vegetation	Soil	or Hydrology	naturally p	problematic?		(If neede	d, ex	olain an	y answ	ers in Remai	rks.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	X X X	No No No	Is the Sampled Area within a Wetland?	Yes	x	No
Remarks: Recorded precipitation in pre	vious	nonth	ns was below norma	al range			

### VEGETATION – Use scientific names of plants.

Tree Streture (Distaine) col. D	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	(A)
2					
3				Total Number of Dominant	
4				Species Across All Strata: 3	(B)
	:	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1				That Are OBL, FACW, or FAC: 100.00	(A/B)
2				Drawelawa a haday waadada a t	
3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5		. <u> </u>		OBL species x 1=	
		= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Athyrium cyclosorum	5		FAC	FACU species x 4=	
2. Carex obnupta	40	1	OBL	UPL species x 5=	
3. Lemna minor	20	1	OBL	Column Totals:(A)	(B)
4. Maianthemum racemosum	20	1	FAC		
5. Oenanthe sarmentosa	5		OBL	Prevalence Index = $B/A = \underline{0}$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				X 2- Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹ (Provide supp	porting
11.				data in Remarks or on a separate sheet)	Ũ
	90	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Exp	lain)
1				¹ Indicators of hydric soil and wetland hydrology	must
2.				be present, unless disturbed or problematic.	
		= Total Cover			
V Dava Craund in Llark Chratum 40		= rotal Cover		Hydrophytic Vegetation Yes X No	
% Bare Ground in Herb Stratum 40					
				Present?	
Remarks:					

US Army Corps of Engineers

Sampling Point: 131

Profile Des	scription: (Describe to	the depth	needed to document	the indicat	or or cor	firm the	e absence of indic	ators.)
Depth	Matrix		Redo	x Features				
					<b>-</b> 1	. 2	<b>-</b> .	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
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	
1								
	Concentration, D=Deple				bated Sar	nd Grain	is. ² Loca	tion: PL=Pore Lining, M=Matr
Hydric Soil	Indicators: (Applicabl	le to all LR	Rs, unless otherwise	noted.)			Indicators for P	roblematic Hydric Soils ³ :
Histos	οl (Λ1)		Sandy Rodox (S5)				2 cm Muck (/	10)
			Sandy Redox (S5)				2 cm Muck (#	
	Epipedon (A2)		Stripped Matrix (S6)				Red Parent N	· · ·
Black I	Histic (A3)		Loamy Mucky Minera	l (F1) <b>(exce</b>	pt MLRA	. 1)	Very Shallow	Dark Surface (TF12)
X Hydrog	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Other (Explai	n in Remarks)
Deplet	ed Below Dark Surface (	(A11)	Depleted Matrix (F3)					
·	Dark Surface (A12)	· /	Redox Dark Surface (	(F6)			Indicators of hyd	rophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfac	. ,			-	ology must be present,
							-	
Sandy	Gleyed Matrix (S4)		Redox Depressions (I	F8)			unless disturi	bed or problematic.
Restrictive	Layer (if present):							
Type:			-					
Depth	(inches):		_		Hyd	ric Soil	Present? Yes	X No
Demerker								
Remarks:								
HYDROL	JGY							
III DIQUE								
Wetland Hy	drology Indicators:							
Primary In	dicators (minimum of on	e required;	check all that apply)				Secondary In	dicators (2 or more required)
-	e Water (A1)	•	Water-Stained Lea	aves (BQ) (e	vcent M	RA		ained Leaves (B9) (MLRA 1, 2,
	( )				veebt in		4A, an	
	/ater Table (A2)		1, 2, 4A, and 4E	<i>)</i>				,
X Satura			Salt Crust (B11)	(D ( 0)				Patterns (B10)
	Marks (B1)		Aquatic Invertebra					on Water Table (C2)
Sedim	ent Deposits (B2)		X Hydrogen Sulfide					Visible on Aerial Imagery (C9)
Drift D	eposits (B3)		Oxidized Rhizosph	neres along	Living Ro	oots (C3)	) Geomorph	nic Position (D2)
Algal N	lat or Crust (B4)		Presence of Redu	ced Iron (C	4)		Shallow A	quitard (D3)
Iron De	eposits (B5)		Recent Iron Redu	ction in Tille	d Soils (C	6)	FAC-Neut	ral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or Stresse	ed Plants (D	1) (LRR	<b>A</b> )	Raised Ar	nt Mounds (D6) ( <b>LRR A</b> )
Inunda	tion Visible on Aerial Im	agery(B7)	Other (Explain in F	Remarks)			Frost-Hea	ve Hummocks (D7)
Sparse	ely Vegetated Concave S	Surface (B8)					—	
		( - )						
Field Obs								
Surface W	ater Present? Yes	No	X Depth (Inc	hes): N/	A .			
Water Tab	le Present? Yes	X No	Depth (Inc	hes): 4				
Saturation	Present? Yes	X No	Depth (Inc	hes): zei	0	Wetla	nd Hydrology Pre	sent? Yes <u>X</u> No
(includes d	apillary fringe)							
•		auge, moni	toring well, aerial photo	os, previous	inspection	ons), if a	vailable	
Describer						,, -		
Describe i		,						
		,						
Remarks:		,						

Project/Site: Newpo	rt Municipa	al Airport		City/County:	City of Newpo	ort	Sampling Dat	te: 25-Se	p-2019	
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poi	nt: 1	32
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, To	wnship, Range	: Sectio	n 29, To	ownship 11 S, I	Range 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conve	x, none):	concave	e (	Slope (%):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.57	70731	I	_ong: -124	4.05785	5 I	Datum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slope:	S		NW	l classif	ication: Riverir	ne	
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time o	of year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Norma	l Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	(If needed, e	explain ar	iy answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Domarka: Departed presidentian			haaa				

Remarks: Recorded precipitation in previous months was below normal range

#### VEGETATION – Use scientific names of plants. Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' R) % Cover Species? Status Number of Dominant Species 1. Alnus rubra 20 1 FAC That Are OBL, FACW, or FAC: 2. tal Number of Dominant

3				Total Number of Dominant		
4. Willow sp	10	1	FAC	Species Across All Strata:	3	(B)
	30	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species		
1				That Are OBL, FACW, or FAC:	100.00	(A/B)
2						
3				Prevalence Index worksheet:		
4				Total % Cover of:	Multiply by:	
5					1=	_
		= Total Cover			2=	_
Herb Stratum (Plot size: 5' R)				FAC species x	3=	_
1. Athyrium cyclosorum	5		FAC	FACU species x	4=	_
2. Carex obnupta	80	1	OBL	UPL species x	5=	
3				Column Totals: (A)		(B)
4						
5				Prevalence Index = B/A =	<u>0</u>	
6				Hydrophytic Vegetation Indic	ators:	
7				1- Rapid Test For Hydrophy	tic Vegetation	
8				X 2- Dominance Test is >50%		
9				3- Prevalence Index is ≤3.0	I	
10.				4- Morphological Adaptation	s ¹ (Provide su	pporting
11.	5			data in Remarks or on a s	separate sheet	:)
	90	= Total Cover		5- Wetland Non-Vascular Pl		
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic	Vegetation ¹ (E)	(plain)
1				¹ Indicators of hydric soil and w	etland hydrolog	gy must
2				be present, unless disturbed of	r problematic.	
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum		_		Vegetation Yes X	No	
				Present?		
				Present?		
Remarks:				Present?		
Remarks:				Present?		

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version 2.0

3

(A)

Profile Description: (Describe to the dep	th needed to document	the indicato	r or con	firm the	absence of i	ndicators.)	
Depth Matrix	Redo	x Features					
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-8 10 yr 2/2 100					Silt loam	Mucky	
8-16 10 yr 4/1 90	5 yr 5/8	10	С	PI	Silt loam		
¹ Type: C=Concentration, D=Depletion, RM	Reduced Matrix, CS=Co	overed or Coa	ated Sar	nd Grain	s. ² L	ocation: PL	=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all							atic Hydric Soils ³ :
					• • •	. (	•
Histosol (A1)	Sandy Redox (S5)				2 cm Mu		
Histic Epipedon (A2)	Stripped Matrix (S6)					ent Material	,
Black Histic (A3)	Loamy Mucky Minera		t MLRA	. 1)			urface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (E)	oplain in Re	marks)
Depleted Below Dark Surface (A11)	X Depleted Matrix (F3)						
Thick Dark Surface (A12)	Redox Dark Surface	(F6)			³ Indicators of	hydrophytic	c vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surfac	e (F7)			wetland h	nydrology m	ust be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (	F8)			unless di	sturbed or p	problematic.
Restrictive Layer (if present):							
Type:							
Depth (inches):			Hyd	ric Soil	Present?	Yes X	No
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:							
Primary Indicators (minimum of one require	d: check all that apply)				Sacanda	n Indicator	s (2 or more required)
				_			· · · · ·
Surface Water (A1)	Water-Stained Lea	. , .	cept MI	LRA			aves (B9) ( <b>MLRA 1, 2,</b>
X High Water Table (A2)	1, 2, 4A, and 4E	3)				, and 4B)	(D40)
X Saturation (A3)	Salt Crust (B11) Aquatic Invertebra					age Pattern	er Table (C2)
Water Marks (B1)	X Hydrogen Sulfide	. ,					
Sediment Deposits (B2) Drift Deposits (B3)	Oxidized Rhizosph		iving Po	note (C3)		orphic Posi	on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Presence of Redu	•	0	013 (03)		w Aquitard	
Iron Deposits (B5)	Recent Iron Redu	,		<b>`</b> 6)		Neutral Test	. ,
Surface Soil Cracks (B6)	Stunted or Stresse		•	·			ds (D6) ( <b>LRR A</b> )
Inundation Visible on Aerial Imagery(B				<b>~</b> )			mocks (D7)
Sparsely Vegetated Concave Surface (	<i>i</i>	(onland)				nouvo man	
	- /		r				
Field Observations:							
Surface Water Present? Yes	No X Depth (Inc		_				
Water Table Present? Yes X	No Depth (Inc		_			<b>D</b>	V V
Saturation Present? Yes X	No Depth (Inc	hes): surfac	,e	wetla	nd Hydrology	Present?	Yes <u>X</u> No
(includes capillary fringe)					voilabla		
Describe Recorded Data (stream dauge m	onitoring well, aerial phot	os, previous i	inspectio	ons) if a	valiable		
Describe Recorded Data (stream gauge, m	onitoring well, aerial phot	os, previous	inspectio	ons), if a	valiable		
Describe Recorded Data (stream gauge, m Remarks:	onitoring well, aerial phot	os, previous	inspectio	ons), if a			

Project/Site: Newport Municipal Airport				City/County: City of Newport					Sampling Da	ate: 2	25-Sep-2019	
Applicant/Owner:	City of Ne	wport		•		Stat	te:	OR	Sampling Po	pint:	133	
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, To	wnship, Ran	ge: Se	ection	29, To	wnship 11 S,	Range 1	1 S	
Landform (hillslope,	terrace, et	tc.): floodplain		Local relief (c	oncave, con	vex, non	ie): c	oncave	)	Slope (%	6):	2
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.57	0707		Long:	-124.	057922	2	Datum: I	NAD83	
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes	\$			NWI	classifi	cation: River	ine		
Are climatic / hydrol	ogic condit	tions on the site typic	al for this time of	f year? Yes	No	X (I	lf no,	explai	n in Remarks.	)		
Are Vegetation	Soil	or Hydrology	significantly d	listurbed?	Are "Norn	nal Circu	ımsta	nces"	present' Yes	XI	No	
Are Vegetation	Soil	or Hydrology	naturally prob	plematic?	(If needed	d, explaii	n any	answe	ers in Remark	s.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	X
Pomarka: Popardad provinitation in	nrovious mo	nthe wor	bolow porp	al range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	60	1	FACU	•	A)
2. Frangula purshiana	20	1	FAC		,
3.		. <u> </u>		Total Number of Dominant	
4.				Species Across All Strata: 3 (E	B)
	80	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Alnus rubra	5		FAC	That Are OBL, FACW, or FAC: 33.33 (A/	/B)
2. Gaultheria shallon	40	1	FACU		
3. Rubus spectabilis	10		FAC	Prevalence Index worksheet:	
4. Vaccinium parvifolium	5		FACU	Total % Cover of: Multiply by:	
5. Frangula purshiana	10			OBL species x 1=	
	70	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1				FACU species x 4=	
2				UPL species x 5=	
3				Column Totals: (A) (B)	)
4					
5				Prevalence Index = $B/A = 0$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide suppor	rting
11				data in Remarks or on a separate sheet)	
		= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain	
1				¹ Indicators of hydric soil and wetland hydrology m	ust
2				be present, unless disturbed or problematic.	
	:	= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes No X	
				Present?	_
Remarks:					

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Sampling Point: 133

UUIE							•	100
Profile Des	scription: (Describe to	the depth	needed to document	the indicat	or or cor	nfirm the	absence of indi	cators.)
Depth	Matrix	-		x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	Duff	/0		/0	Туре	LUC	Duff	Remarks
5-16	10 yr 3/4	100					Silt loam	
	,							
						·		
¹ Type: C=	Concentration, D=Deple	tion. RM=F	Reduced Matrix. CS=Co	overed or C	pated Sa	nd Grain	s. ² Loca	ation: PL=Pore Lining, M=Matr
	Indicators: (Applicab							roblematic Hydric Soils ³ :
				,				-
Histos	, ,		Sandy Redox (S5)				2 cm Muck (	
	Epipedon (A2)		Stripped Matrix (S6)					Material (TF2)
	Histic (A3)		Loamy Mucky Minera		pt MLRA	(1)		v Dark Surface (TF12)
	gen Sulfide (A4)	<u> </u>	Loamy Gleyed Matrix	: (F2)			Other (Expla	in in Remarks)
·	ed Below Dark Surface	(A11)	Depleted Matrix (F3)					
	Dark Surface (A12)		Redox Dark Surface	. ,			-	drophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfac	( )			-	ology must be present,
Sandy	Gleyed Matrix (S4)	<u> </u>	_Redox Depressions (	F8)			unless distur	bed or problematic.
Restrictive	Layer (if present):							
Type:								
	(inches):		-		Hyd	Iric Soil	Present? Yes	s No X
			-					
Remarks:								
HYDROL	DGY							
Wetland Hy	/drology Indicators:							
•	dicators (minimum of on	e required:	check all that apply)				Secondary Ir	ndicators (2 or more required)
	•	e required,		avec (P0) (e	voont M			
	e Water (A1)		Water-Stained Le	. , .	except w	LKA		ained Leaves (B9) ( <b>MLRA 1, 2,</b> nd <b>4B)</b>
	Vater Table (A2) tion (A3)		1, 2, 4A, and 4E Salt Crust (B11)	<b>)</b>				Patterns (B10)
	Marks (B1)		Aquatic Invertebra	ates (B13)				on Water Table (C2)
	ent Deposits (B2)		Hydrogen Sulfide					n Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizospl		l ivina Ra	oots (C3)		hic Position (D2)
	Aat or Crust (B4)		Presence of Redu	-	-			Aquitard (D3)
	eposits (B5)		Recent Iron Redu		,	C6)		tral Test (D5)
	e Soil Cracks (B6)		Stunted or Stress		`	,		nt Mounds (D6) (LRR A)
	tion Visible on Aerial Im	agery(B7)	Other (Explain in I		<i>,</i> , ,	,		ave Hummocks (D7)
Sparse	ely Vegetated Concave	Surface (B8	)				_	
Field Obs	ervations:							
	ater Present? Yes	N	o X Depth (Inc	hes): N/	4			
	le Present? Yes	N	<u> </u>	· ·				
Saturation			Depth (Inc			Wetla	nd Hydrology Pre	esent? Yes No X
(includes o	apillary fringe)		· ``					
Describe F	Recorded Data (stream g	gauge, mon	itoring well, aerial phot	os, previous	inspecti	ons), if a	vailable	
Remarks:								

Project/Site: Newport Municipal Airport				City/County	City/County: City of Newport				e: 25-Sep	-2019
Applicant/Owner:	City of Ne	wport				State:	OR	Sampling Poin	nt: 13	4
Investigator(s): Luke	Johnson	and Amanda Brophy		Section, To	ownship, Range	e: Sectio	on 29, To	ownship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (	concave, conve	ex, none):	convex	S	lope (%):	0
Subregion (LRR):	A2 - Willa	mette Valley	Lat: 44.5	570696		Long: -124	4.06037	2 D	atum: NAD83	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slope	es		NW	l classif	ication: none		
Are climatic / hydrol	ogic condit	tions on the site typic	al for this time	of year? Yes	s No >	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	y disturbed?	Are "Norma	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	oblematic?	(If needed,	explain ar	ny answe	ers in Remarks.	)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Remarka: Recorded precipitation in	nroviouo	mont		armal range			

Remarks: Recorded precipitation in previous months was below normal range

# VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet:

Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1. Alnus rubra	40	1	FAC		(A)
	40		FAC		(A)
23.				Total Number of Dominant	
4				Species Across All Strata: 2	(B)
	40	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1				That Are OBL, FACW, or FAC: 100.00 (A	4/B)
2					
3				Prevalence Index worksheet:	
4				Total % Cover of: Multiply by:	
5				OBL species x 1=	
		= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Lysichiton americanus	5		OBL	FACU species x 4=	
2. Carex obnupta	60	1	OBL	UPL species x 5=	
3.					3)
1					-)
4. 5.				Prevalence Index = B/A = 0	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
7 8				X 2-Dominance Test is >50%	
o 9				3. Prevalence Index is $\leq 3.0^{1}$	
				4- Morphological Adaptations ¹ (Provide suppo	orting
	5				Jung
11	-	= Total Cover		data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)	70			6- Problematic Hydrophytic Vegetation ¹ (Expla	ain)
1				¹ Indicators of hydric soil and wetland hydrology r	nust
2				be present, unless disturbed or problematic.	
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum 30				Vegetation Yes X No	
				Present?	_
Remarks:				-	

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Sampling Point: 134

Profile Des	scription: (Describe to	the depth	needed to document	the indicate	or or cor	firm the	e absence of i	ndicators.)
Depth	Matrix	•		ox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10 yr 2/2	95	7.5 yr 4/6	5	<u>C</u>	Pl/m	Silt loam	
4-16	10 yr 3/2	85	5 yr 4/6	15	С	PI	Silt loam	Lots of organic material
						_		
						_		
¹ Type: C=	Concentration, D=Deple	tion, RM=R	educed Matrix, CS=C	overed or Co	ated Sar	nd Grain	s. ² L	ocation: PL=Pore Lining, M=Matr
Hydric Soil	Indicators: (Applicab	le to all LR	Rs, unless otherwise	noted.)				or Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muo	ck (A10)
Histic	Epipedon (A2)		Stripped Matrix (S6)					ent Material (TF2)
Black	Histic (A3)		Loamy Mucky Minera	al (F1) <b>(exce</b>	pt MLRA	. 1)	Very Sha	llow Dark Surface (TF12)
X Hydrog	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Other (Ex	plain in Remarks)
·	ed Below Dark Surface (	· · -	Depleted Matrix (F3)					
	Dark Surface (A12)	X	Redox Dark Surface	. ,				hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surface					hydrology must be present,
Sandy	Gleyed Matrix (S4)	_	Redox Depressions (	(F8)			unless di	sturbed or problematic.
	Layer (if present):							
Type: Depth	(inches):		-		Hvd	ric Soil	Present?	Yes X No
			-					
Remarks:								
HYDROL								
	/drology Indicators:							
-	dicators (minimum of on	e required:	check all that apply)				Seconda	ry Indicators (2 or more required)
		e required,	Water-Stained Le		voont M	_ _ D A		-Stained Leaves (B9) (MLRA 1, 2,
	e Water (A1) Vater Table (A2)		1, 2, 4A, and 4		xcept wi			, and 4B)
X Satura			Salt Crust (B11)	-)				age Patterns (B10)
	Marks (B1)		Aquatic Invertebra	ates (B13)				eason Water Table (C2)
	ent Deposits (B2)		X Hydrogen Sulfide					ation Visible on Aerial Imagery (C9)
	eposits (B3)		Oxidized Rhizosp		Living Ro	oots (C3		orphic Position (D2)
Algal N	/lat or Crust (B4)		Presence of Redu	uced Iron (C4	l)		Shallo	w Aquitard (D3)
Iron De	eposits (B5)		Recent Iron Redu	ction in Tille	d Soils (C	C6)	FAC-N	Veutral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or Stress	ed Plants (D	1) ( <b>LRR</b> )	<b>A</b> )		d Ant Mounds (D6) ( <b>LRR A</b> )
	tion Visible on Aerial Im	••••	Other (Explain in	Remarks)			Frost-	Heave Hummocks (D7)
Sparse	ely Vegetated Concave S	Surface (B8	)					
	ervations:							
	ater Present? Yes	No	<u> </u>	·	<u> </u>			
	le Present? Yes	No No						
Saturation		<u>X</u> No	Depth (Inc	ches): 5		wetla	nd Hydrology	Present? Yes X No
•	capillary fringe) Recorded Data (stream <u>c</u>		itoring well periol phot	tos provious	inspectiv	one) if a	wailable	
Describe f		auge, mon	aoning wen, aenai phoi	uos, previous	mapecti	JII J, II Z		
Remarks:								

Project/Site: Newpo	oject/Site: Newport Municipal Airport				City/County: City of Newport			Sampling Dat	e: 25-Sep	-2019
Applicant/Owner:	City of Ne	wport		State: OR			Sampling Poi	nt: 13	35	
Investigator(s): Luke	nvestigator(s): Luke Johnson and Amanda Brophy andform (hillslope, terrace, etc.): floodplain				Section, Township, Range: Section 29, To			ownship 11 S, Range 11 S		
Landform (hillslope,	Local relief (co	oncave, conv	vex, none):	none	5	Slope (%):	3			
Subregion (LRR):	0682 Long: -124.06040			8 [	Datum: NAD8	3				
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes			NW	/I classif	ication: none		
Are climatic / hydrol	ogic condit	tions on the site typic	al for this time of	f year? Yes	No	X (lf n	o, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Norm	al Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed	, explain a	ny answ	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	X No						
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area				
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х	
Remarks: Recorded precipitation in		onthe wa	s below por	nal range				

Recorded precipitation in previous months was below normal range emarks:

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Frangula purshiana	50	1	FAC	That Are OBL, FACW, or FAC: 3 (A)
2. Alnus rubra	40	1	FAC	
3.		<u> </u>		Total Number of Dominant
4.				Species Across All Strata: 5 (B)
	90	= Total Cover		· · ·
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Polystichum munitum	75	1	FACU	That Are OBL, FACW, or FAC: 60.00 (A/B)
2. Gaultheria shallon	20	1	FACU	
3. Rubus spectabilis	20	1	FAC	Prevalence Index worksheet:
4. Lonicera involucrata	5		FAC	Total % Cover of: Multiply by:
5				OBL species x 1=
	120	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1				FACU species x 4=
2.				UPL species x 5=
3				Column Totals: (A) (B)
4				
5				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9				3- Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
		= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetland hydrology must
2				be present, unless disturbed or problematic.
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				•

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Sampling Point: 135

Profile Description: (Describe to the depi	h needed to document the indicator or confirm the	e absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks
0-16 10YR 2/2 100		Sand loam
<u> </u>		
¹ Type: C=Concentration, D=Depletion, RM	Reduced Matrix, CS=Covered or Coated Sand Grain	ns. ² Location: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all L	.RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Historol (A1)	Sandy Roday (SE)	$2 \text{ om } M_{\text{uck}} (A10)$
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:		
Depth (inches):	Hydric Soil	Present? Yes No X
Remarks:		
Remarks:		
Remarks:		
Remarks: HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:	d; check all that apply)	Secondary Indicators (2 or more required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 38)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Field Observations:         Surface Water Present?	Water-Statistic Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes	Water-Statistic Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (B7)         Surface Water Present?         Yes         Water Table Present?       Yes         Saturation Present?       Yes	Water-Statistic Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Statistic Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3 Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Water Table Present?       Yes         (includes capillary fringe)       Describe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one require         Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7         Sparsely Vegetated Concave Surface (B7         Surface Water Present?         Yes         Water Table Present?         Yes         Saturation Present?         Yes         (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C3         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         Other (Explain in Remarks)         38)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Newpo	oject/Site: Newport Municipal Airport				City/County: City of Newport			Sampling Dat	te: 25-Se	p-2019
Applicant/Owner:	City of New	wport				State:	OR	Sampling Poi	nt: 1	36
Investigator(s): Luke	nvestigator(s): Luke Johnson and Amanda Brophy				Section, Township, Range: Section 29, To			ownship 11 S, Range 11 S		
andform (hillslope, terrace, etc.): floodplain				Local relief (co	oncave, conve	k, none):		Slope (%): 3		
Subregion (LRR):	floodplain		Lat: 44.589	9045	L	ong: -124	.05921	3 [	Datum: NAD8	3
Soil Map Unit Name	: 42E - N	elscott loam, 12 to 5	0 percent slopes			NW	l classif	ication: PFO		
Are climatic / hydrol	ogic condit	ions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	explain an	y answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No
Demontro: Depended presinitation in			ha waa ha				

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.** Г

Tree Stratum (Blat size) and D	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
1. Alnus rubra	5	1	FAC	That Are OBL, FACW, or FAC: (A)
2				
3				Total Number of Dominant
4				Species Across All Strata: 4 (B)
	5	= Total Cover		
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species
1. Malus fusca	5		FACW	That Are OBL, FACW, or FAC:(A/B)
2. Gaultheria shallon	5		FACU	
3. Spiraea douglasii	20	1	FACW	Prevalence Index worksheet:
4. Lonicera involucrata	20	1	FAC	Total % Cover of: Multiply by:
5.				OBL species x 1=
	50	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1. Blechnum spicant	10		FAC	FACU species x 4=
2. Athyrium cyclosorum	10		FAC	UPL species x 5=
3. Carex obnupta	50	1	OBL	Column Totals: (A) (B)
4.				(1)
5.				Prevalence Index = $B/A = \underline{0}$
6				Hydrophytic Vegetation Indicators:
7				1- Rapid Test For Hydrophytic Vegetation
8				X 2- Dominance Test is >50%
9.				3. Prevalence Index is ≤3.0 ¹
10				4- Morphological Adaptations ¹ (Provide supporting
11				data in Remarks or on a separate sheet)
11	70	= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
<u></u>				¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
۲				
		= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum				Vegetation Yes X No
				Present?
Remarks:				

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Version 2.0

1

Profile De	scription: (Describe to	the depth	needed to document	t the indicat	or or cor	firm the	e absence of in	dicators.)
Depth	Matrix		Rad	ox Features				
					4	0		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 2/2	100					silt loam	
5-16	10YR 4/1	80	7.5YR 4/6	20	С	PL	silt loam	
-								
¹ Type: C=	Concentration, D=Deple	etion, RM=F	educed Matrix, CS=C	Covered or Co	pated Sar	nd Grain	is. ² Lo	ocation: PL=Pore Lining, M=Matr
Hydric Soi	Indicators: (Applicab	le to all LR	Rs, unless otherwise	e noted.)			Indicators for	r Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy Redox (S5)				2 cm Muc	k (A10)
Histic	Epipedon (A2)		Stripped Matrix (S6)				Red Parer	nt Material (TF2)
Black	Histic (A3)		Loamy Mucky Miner	al (F1) <b>(exce</b>	ot MIRA	1)	Verv Shal	low Dark Surface (TF12)
			-			,		
	gen Sulfide (A4)	_	Loamy Gleyed Matri				Other (Ex	plain in Remarks)
Deplet	ed Below Dark Surface (	(A11) _X	Depleted Matrix (F3)					
Thick	Dark Surface (A12)		Redox Dark Surface	(F6)			3Indicators of I	hydrophytic vegetation and
	Mucky Mineral (S1)		Depleted Dark Surfa	. ,				drology must be present,
							-	
Sandy	Gleyed Matrix (S4)		Redox Depressions	(F8)			unless dis	turbed or problematic.
<b>D</b> a stais time	1 (:1							
Restrictive	Layer (if present):							
Type:			_					
Depth	(inches):		_		Hyd	ric Soil	Present?	res X No
Remarks:								
HYDROL	OGY							
Wetland H	ydrology Indicators:							
Primary In	dicators (minimum of on	e required;	check all that apply)				Secondar	y Indicators (2 or more required)
	•				woont M			
	e Water (A1)		Water-Stained Le		except wi	LKA		Stained Leaves (B9) (MLRA 1, 2,
	Vater Table (A2)		1, 2, 4A, and 4	В)			,	and 4B)
X Satura	ition (A3)		Salt Crust (B11)				Draina	ge Patterns (B10)
Water	Marks (B1)		Aquatic Invertebr	ates (B13)			Dry-Se	ason Water Table (C2)
	ent Deposits (B2)		X Hydrogen Sulfide					tion Visible on Aerial Imagery (C9)
	• • • •				Living De	ata (Ca		<b>e</b> , ( )
	eposits (B3)		Oxidized Rhizosp	-	-			prphic Position (D2)
	Mat or Crust (B4)		Presence of Red		,		Shallov	v Aquitard (D3)
Iron D	eposits (B5)		Recent Iron Redu	uction in Tille	d Soils (C	C6)	FAC-N	eutral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted or Stress	sed Plants (D	1) (LRR	<b>A</b> )	Raised	Ant Mounds (D6) (LRR A)
Inunda	ation Visible on Aerial Im	agery(B7)	Other (Explain in	Remarks)			Frost-F	leave Hummocks (D7)
	ely Vegetated Concave S			, , , , ,				(_ · )
			/					
Field Obs	ervations:							
	/ater Present? Yes	No	X Depth (In	ches): NA	A			
				,				
	ble Present? Yes	No No						
Saturation	Present? Yes	X No	Depth (In	ches): 5		Wetla	nd Hydrology I	Present? Yes <u>X</u> No
(includes	capillary fringe)							
Describe I	Recorded Data (stream g	gauge, mon	itoring well, aerial pho	tos, previous	inspection	ons), if a	vailable	
		-	-	-	-			
Remarks:								
Kemarka.								

Project/Site: Newpo	oject/Site: Newport Municipal Airport				City/County: City of Newport			Sampling Dat	te: 25-Se	p-2019
Applicant/Owner:	City of New	port		State: OR			Sampling Poi	int: 1	37	
Investigator(s): Luke	nvestigator(s): Luke Johnson and Amanda Brophy andform (hillslope, terrace, etc.): floodplain				Section, Township, Range: Section 29, To			ownship 11 S, Range 11 S		
Landform (hillslope,	terrace, etc	Local relief (co	oncave, conve	x, none):	none		Slope (%):	3		
Subregion (LRR):	A2 - Willam	ette Valley	Lat: 44.58	9009	I	_ong: -124	1.05928	9	Datum: NAD8	3
Soil Map Unit Name	: 42E - Ne	scott loam, 12 to 5	0 percent slopes	;		NW	l classif	ication: PFO		
Are climatic / hydrol	ogic conditio	ons on the site typic	al for this time o	f year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly c	listurbed?	Are "Norma	l Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	explain ar	iy answe	ers in Remarks	5.)	

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

Hydrophytic Vegetation Present?	Yes X	K No					
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks: Recorded precipitation in	nrevious mo	onthe way	s below norm	al range			

Recorded precipitation in previous months was below normal range emarks:

#### **VEGETATION – Use scientific names of plants.**

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3 (A	4)
2					
3				Total Number of Dominant	
4				Species Across All Strata: 4 (E	3)
	:	= Total Cover			
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Rubus parviflorus	10		FACU	That Are OBL, FACW, or FAC: 75.00 (A/	/B)
2. Gaultheria shallon	30	1	FACU		
3. Spiraea douglasii	20	1	FACW	Prevalence Index worksheet:	
4. Lonicera involucrata	10		FAC	Total % Cover of: Multiply by:	
5				OBL species x 1=	
	70	= Total Cover		FACW species x 2=	
Herb Stratum (Plot size: 5' R)				FAC species x 3=	
1. Equisetum arvense	10	1	FAC	FACU species x 4=	
2. Athyrium cyclosorum	5	1	FAC	UPL species x 5=	
3				Column Totals: (A) (B)	)
4.				、,	
5				Prevalence Index = $B/A = 0$	
6				Hydrophytic Vegetation Indicators:	
7				1- Rapid Test For Hydrophytic Vegetation	
8.				X 2 Dominance Test is >50%	
9.				3- Prevalence Index is ≤3.0 ¹	
10				4- Morphological Adaptations ¹ (Provide support	tina
11				data in Remarks or on a separate sheet)	
11	15	= Total Cover		5- Wetland Non-Vascular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain	n)
				¹ Indicators of hydric soil and wetland hydrology m	
2				be present, unless disturbed or problematic.	aor
2					
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes X No	_
				Present?	
Remarks:					

US Army Corps of Engineers

Sampling Point: 137

Profile Des	scription: (Descr	ibe to the depth	needed to document	the indicato	r or con	firm the	e absence of ind	icators.)	
Depth	Mat	rix	Rede	ox Features					
(inches)	Color (moist	) %	Color (moist)	%	Type ¹	Loc ²	Texture	С	
0-16	10YR 2/1	100			. 71		fill/gravel	-	-
									-
									-
									-
									-
									-
									-
									-
1-						<u> </u>	2.		-
			Reduced Matrix, CS=C		ated Sar	nd Grain		ation: PL=Pore Lining, M=Mat	r
Hydric Soil	Indicators: (App	plicable to all LR	Rs, unless otherwise	e noted.)			Indicators for	Problematic Hydric Soils ³ :	
Histoso	ol (A1)		Sandy Redox (S5)				2 cm Muck	(A10)	
	Epipedon (A2)	—	Stripped Matrix (S6)					Material (TF2)	
	Histic (A3)	—	Loamy Mucky Minera	al (F1) <b>(excer</b>		1)		w Dark Surface (TF12)	
	gen Sulfide (A4)	_	Loamy Gleyed Matrix			.,		ain in Remarks)	
	ed Below Dark Su		Depleted Matrix (F3)						
·	Dark Surface (A12		Redox Dark Surface				andicators of h	/drophytic vegetation and	
	Mucky Mineral (S	·	Depleted Dark Surface	( )			-	drology must be present,	
		·					-		
Sandy	Gleyed Matrix (S4	4) <u> </u>	Redox Depressions	(F8)			unless distu	urbed or problematic.	
Restrictive	Layer (if present	·)·							
Type:		. <i>.</i>							
	(inches): 6		_		Hvd	ric Soil	Present? Ye	es No X	
Bopui			_						
Remarks:									
HYDROLO	JGY								
Wetland Hy	drology Indicato	ors:							
Primary In	dicators (minimum	n of one required;	check all that apply)			_	Secondary	Indicators (2 or more required)	1
Surfac	e Water (A1)		Water-Stained Le	eaves (B9) ( <b>e</b> )	cept M	LRA	Water-S	tained Leaves (B9) (MLRA 1, 2	2,
High W	/ater Table (A2)		1, 2, 4A, and 4	В)			4A, a	ind 4B)	
Satura	tion (A3)		Salt Crust (B11)				Drainage	e Patterns (B10)	
Water	Marks (B1)		Aquatic Invertebr	ates (B13)			Dry-Sea	son Water Table (C2)	
Sedim	ent Deposits (B2)		Hydrogen Sulfide	Odor (C1)			Saturatio	on Visible on Aerial Imagery (C	;9)
Drift De	eposits (B3)		Oxidized Rhizosp	heres along L	iving Ro	oots (C3)	) Geomor	phic Position (D2)	
Algal N	lat or Crust (B4)		Presence of Redu	uced Iron (C4	)		Shallow	Aquitard (D3)	
Iron De	eposits (B5)		Recent Iron Redu	uction in Tilled	Soils (C	6)	FAC-Ne	utral Test (D5)	
Surfac	e Soil Cracks (B6)	)	Stunted or Stress	ed Plants (D1	) (LRR /	<b>A</b> )	Raised A	Ant Mounds (D6) (LRR A)	
Inunda	tion Visible on Ae	rial Imagery(B7)	Other (Explain in	Remarks)			Frost-He	eave Hummocks (D7)	
Sparse	ly Vegetated Con	cave Surface (B8	3)						
Field Obs	ervations:								
		Yes N	o X Depth (In	ches): NA					
		Yes N		,	-				
Saturation			o X Depth (Inc			Wetla	nd Hydrology Pr	resent? Yes No X	
	apillary fringe)			<i>,</i>	-		,		-
		ream gauge, mor	nitoring well, aerial pho	tos, previous	inspectio	ons), if a	available		
			- •		~				
Remarks:									
Remarks.									
Remarks.									

Project/Site: Newport Municipal Airport			City/County:	City/County: City of Newport				e: 24-Sep	-2019	
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Poin	nt: 13	8
Investigator(s): Luke Johnson and Amanda Brophy				Section, Tov	Section, Township, Range: Section 29, T			ownship 11 S, Range 11 S		
Landform (hillslope,	terrace, et	c.): floodplain		Local relief (co	oncave, conve	(, none):	none	S	lope (%):	3
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.58	85897	L	.ong: <u>-12</u> 4	1.04884	5 D	atum: NAD83	3
Soil Map Unit Name	: 42E - Ne	elscott loam, 12 to 5	0 percent slope	S		NW	l classifi	cation: none		
Are climatic / hydrol	ogic conditi	ons on the site typic	al for this time o	of year? Yes	No X	(If no	, explaii	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly	disturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally pro	blematic?	(If needed, e	xplain an	iy answe	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present?	Yes	Х	No					
Hydric Soil Present?	Yes	Х	No	ls	the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	wi	thin a Wetland?	Yes	х	No
Pomarka: Recorded precipitation in		mont	ha waa halaw	ormal ran	<b>a</b> 0			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

1.		Absolute	Dominant	Indicator	Dominance Test worksheet:
2	Tree Stratum (Plot size: 30' R)	% Cover	Species?	Status	Number of Dominant Species
3.	1				That Are OBL, FACW, or FAC: <u>3</u> (A)
4.					
Sapling/Shrub Stratum       (Plot size: 30' R)       40       1       FAC         1, Alnus rubra       40       1       FAC       That Are OBL, FACW, or FAC: 100.00 (A/B)         2.       3.	3				
Saping/Shrub Stratum       (Plot size: 30' R)       40       1       FAC       Percent of Dominant Species         1, Alnus rubra       40       1       FAC       That Are OBL, FACW, or FAC: 100.00 (A/B)         2.	4				Species Across All Strata: 3 (B)
1. Alnus rubra       40       1       FAC       That Are OBL, FACW, or FAC:			= Total Cover		
2.					
3.		40	1	FAC	That Are OBL, FACW, or FAC: 100.00 (A/B)
4.					
5.       40       = Total Cover       FACW species       x 1=         Herb Stratum       (Plot size: 5' R)       5       FAC         1. Holcus lanatus       5       FAC         2. Equisetum arvense       10       1       FAC         3. Juncus effusus       20       1       FACW         4. Blechnum spicant       5       FAC         5.       5       FAC         6.	3				
40       = Total Cover       FACW species       x 2=         Herb Stratum       (Plot size: 5' R)       5       FAC         1. Holcus lanatus       5       FAC         2. Equisetum arvense       10       1       FAC         3. Juncus effusus       20       1       FACW         4. Blechnum spicant       5       FAC         5.       FAC       Prevalence Index = B/A =       0         6.	4				Total % Cover of: Multiply by:
Herb Stratum       (Plot size: <u>5' R)</u> FAC       FAC       FAC species <u>x 4=</u> 2. Equisetum arvense       10       1       FAC       FAC upt species <u>x 4=</u> 3. Juncus effusus       20       1       FAC       Upt species <u>x 5=</u> 3. Juncus effusus       20       1       FAC       Upt species <u>x 5=</u> 6.	5				
1. Holcus lanatus       5       FAC       FACU species       x 4=         2. Equisetum arvense       10       1       FAC       UPL species       x 5=         3. Juncus effusus       20       1       FACW       Column Totals:       (A)       (B)         4. Blechnum spicant       5       FAC       FAC       Prevalence Index = B/A =       0         6.		40	= Total Cover		
2. Equisetum arvense       10       1       FAC         3. Juncus effusus       20       1       FACW         4. Blechnum spicant       5       FAC         5.       -       -         6.       -       -         7.       -       -         8.       -       -         9.       -       -         0.       -       -         1.       -       -         40       = Total Cover       -         Woody Vine Stratum       (Plot size: 30' R)       -         1.       -       -         2.       -       -         % Bare Ground in Herb Stratum       50       -	Herb Stratum (Plot size: 5' R)				FAC species x 3=
3. Juncus effusus       20       1       FACW       Column Totals:       (A)       (B)         4. Blechnum spicant       5       FAC       Prevalence Index = B/A = 0       0         6.	1. Holcus lanatus	5		FAC	FACU species x 4=
4. Blechnum spicant       5       FAC       Prevalence Index = B/A = 0         6.	2. Equisetum arvense	10	1	FAC	UPL species x 5=
Prevalence Index = B/A = 0         6.         7.         8.         9.         0.         1.         40         attain Remarks or on a separate sheet)         5.         5.         Woody Vine Stratum         (Plot size: 30' R)         1.         attain Remarks or on a separate sheet)         5.         5.         Weaden of hydro bytic Vegetation Indicators:         1.         40         attain Remarks or on a separate sheet)         5.         5.         Wetland Non-Vascular Plants ¹ 6.         Prevalence Index = B/A = 0         Hydrophytic Vegetation ¹ (Provide supporting data in Remarks or on a separate sheet)         5.         5.         Wetland Non-Vascular Plants ¹ 6.         Present;	3. Juncus effusus	20	1	FACW	Column Totals: (A) (B)
6.	4. Blechnum spicant	5		FAC	
7.	5.				Prevalence Index = $B/A = \underline{0}$
8.	6				Hydrophytic Vegetation Indicators:
8.       X 2· Dominance Test is >50%         9.       3. Prevalence Index is ≤3.0 ¹ 0.       4. Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)         5. Wetland Non-Vascular Plants ¹ 5. Wetland Non-Vascular Plants ¹ 6. Problematic Hydrophytic Vegetation ¹ (Explain)       1.         1.       —         2.       —         % Bare Ground in Herb Stratum       50	7.				1- Rapid Test For Hydrophytic Vegetation
9.       3. Prevalence Index is ≤3.0 ¹ 0.       4. Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)         5. Wetland Non-Vascular Plants ¹ 5. Wetland Non-Vascular Plants ¹ 6. Problematic Hydrophytic Vegetation ¹ (Explain)       1.         1.       -         2.       -         % Bare Ground in Herb Stratum       50	8				X 2- Dominance Test is >50%
0.	0				3- Prevalence Index is ≤3.0 ¹
1.       40       = Total Cover       5. Wetland Non-Vascular Plants ¹ Woody Vine Stratum       (Plot size: 30' R)       -       6. Problematic Hydrophytic Vegetation ¹ (Explain)         1.       -       -       -       -         2.       -       = Total Cover       +       -         % Bare Ground in Herb Stratum       50       -       -       -         % Bare Ground in Herb Stratum       50       -       -       -	10				4- Morphological Adaptations ¹ (Provide supporting
Woody Vine Stratum       (Plot size: 30' R)       6. Problematic Hydrophytic Vegetation ¹ (Explain)         1.       1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         % Bare Ground in Herb Stratum       50         Woody Vine Stratum       50         Present?       No	11.				data in Remarks or on a separate sheet)
1.       1 Indicators of hydric soil and wetland hydrology must         2.       be present, unless disturbed or problematic.         % Bare Ground in Herb Stratum       50         Yegetation         Yes       X         No         Present?		40	= Total Cover		5-Wetland Non-Vascular Plants ¹
2	Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
Bare Ground in Herb Stratum     50     Hydrophytic       Vegetation     Yes     X       No     Present?	1.				¹ Indicators of hydric soil and wetland hydrology must
% Bare Ground in Herb Stratum 50 Vegetation Yes X No Present?	2.				be present, unless disturbed or problematic.
% Bare Ground in Herb Stratum 50 Vegetation Yes X No Present?			= Total Cover		
Present?	% Bare Ground in Herb Stratum 50		. 5101 00701		
	Remarks: slough sedge concentration in center of	wetland			
	Remaine. Slough bouge bonochritation in benter of	notiunu			

US Army Corps of Engineers

Sampling Point: 138

Profile Description: (Describe to the depth	needed to document t	the indicate	or or cor	firm the	e absence of in	ndicators.)
Depth Matrix	Redox	x Features				
			<b>T</b>	12	<b>T</b>	Demodus
(inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6 10YR 3/1 100					sand loam	greasy texture
6-11 10YR 2/1 100		<u> </u>			Sand loam	
11-16 2.5Y 5/6 96	2.5Y 4/8	4	С	M	sand	
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix. CS=Co	vered or Co	ated Sa	nd Grain	s. ² L	ocation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to all LI						or Problematic Hydric Soils ³ :
						-
Histosol (A1)	Sandy Redox (S5)				2 cm Muo	
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Pare	ent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral	(F1) (exce	pt MLRA	.1)	Very Sha	llow Dark Surface (TF12)
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (Ex	plain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)				``	
Thick Dark Surface (A12)	Redox Dark Surface (	F6)			3Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surface	,				hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F	-8)			uniess dis	sturbed or problematic.
Restrictive Layer (if present):						
Type: Depth (inches):	_		Live	ria Sail	Present?	Yes X No
	_		пуч	10 301	Fresent	
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required	· check all that apply)				Seconda	ry Indicators (2 or more required)
· · · · · · · · · · · · · · · · · · ·		(D0) (		_		· · · · · ·
X Surface Water (A1)	Water-Stained Lea		xcept M	LRA		-Stained Leaves (B9) (MLRA 1, 2,
X High Water Table (A2)	1, 2, 4A, and 4B	)				, and 4B)
X Saturation (A3)	Salt Crust (B11)					age Patterns (B10)
Water Marks (B1)	Aquatic Invertebra					eason Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide (					ation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizosph	-	-	oots (C3		orphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduc		,		Shallo	w Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduc	tion in Tille	d Soils (C	6)	FAC-N	Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stresse	ed Plants (D	1) ( <b>LRR</b> )	<b>A</b> )		d Ant Mounds (D6) ( <b>LRR A</b> )
Inundation Visible on Aerial Imagery(B7)	Other (Explain in R	Remarks)			Frost-	Heave Hummocks (D7)
	8)					
Sparsely Vegetated Concave Surface (B						
Field Observations:	lo Denth (Incl	nes)· NIA				
Field Observations: Surface Water Present? Yes X N	lo Depth (Incl		<u>`</u>			
Field Observations:         Surface Water Present?       Yes       X       N         Water Table Present?       Yes       X       N	lo Depth (Inch	nes): 3	<u>`</u>	Watta		Brocont? Voc. V No.
Field Observations:         Surface Water Present?       Yes       X       N         Water Table Present?       Yes       X       N         Saturation Present?       Yes       X       N		nes): 3	<u>.                                    </u>	Wetla	nd Hydrology	Present? Yes <u>X</u> No
Field Observations:         Surface Water Present?       Yes       X       N         Water Table Present?       Yes       X       N         Saturation Present?       Yes       X       N         (includes capillary fringe)       Image: Comparison of the second	lo Depth (Incl lo Depth (Incl	nes): 3 nes):	_			Present? Yes <u>X</u> No
Field Observations:         Surface Water Present?       Yes       X       N         Water Table Present?       Yes       X       N         Saturation Present?       Yes       X       N	lo Depth (Incl lo Depth (Incl	nes): 3 nes):	_			Present? Yes <u>X</u> No
Field Observations:         Surface Water Present?       Yes       X       N         Water Table Present?       Yes       X       N         Saturation Present?       Yes       X       N         (includes capillary fringe)       Describe Recorded Data (stream gauge, model)	lo Depth (Incl lo Depth (Incl	nes): 3 nes):	_			Present? Yes <u>X</u> No
Field Observations:         Surface Water Present?       Yes       X       N         Water Table Present?       Yes       X       N         Saturation Present?       Yes       X       N         (includes capillary fringe)       Image: Saturation Present	lo Depth (Incl lo Depth (Incl	nes): 3 nes):	_			Present? Yes <u>X</u> No

Project/Site: Newport Municipal Airport			City/County:	City/County: City of Newport				e: 24-Se	p-2019		
Applicant/Owner:	City of Ne	ewport		-		State:	OR	Sampling Poir	nt: 1	39	
Investigator(s): Luke Johnson and Amanda Brophy				Section, To	Section, Township, Range: Section 29, T				ownship 11 S, Range 11 S		
Landform (hillslope,	terrace, e	tc.): floodplain		Local relief (c	oncave, conv	ex, none):	none	5	Slope (%):	3	
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.58	35839		Long: -124	4.04883	5 C	Datum: NAD8	3	
Soil Map Unit Name	: 42E - N	Nelscott loam, 12 to 5	0 percent slopes	\$		NW	I classif	ication: none			
Are climatic / hydrol	ogic condi	itions on the site typic	al for this time o	of year? Yes	No 2	K (lf no	o, explai	n in Remarks.)			
Are Vegetation	Soil	or Hydrology	significantly of	disturbed?	Are "Norma	al Circums	tances"	present' Yes	X No		
Are Vegetation	Soil	or Hydrology	naturally prot	blematic?	(If needed,	explain ar	ny answ	ers in Remarks	.)		

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Popardad provinitation in	nrovious mo	onthe woo	bolowno	mal range			

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1. Tsuga heterophylla	20	1	FACU	That Are OBL, FACW, or FAC: 1 (A)
2.		<u> </u>		
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
···	20	= Total Cover		
Sapling/Shrub Stratum (Plot size: _30' R)				Percent of Dominant Species
1. Gaultheria shallon	60	1	FACU	That Are OBL, FACW, or FAC: 33.33 (A/B)
2. Cytisus scoparius	10		NL	
3.				Prevalence Index worksheet:
4				Total % Cover of: Multiply by:
5.				OBL species x 1=
	70	= Total Cover		FACW species x 2=
Herb Stratum (Plot size: 5' R)				FAC species x 3=
1				FACU species x 4=
2.				UPL species x 5=
3.				Column Totals: (A) (B)
4.				、
5.				Prevalence Index = $B/A = 0$
6.				Hydrophytic Vegetation Indicators:
7.				1- Rapid Test For Hydrophytic Vegetation
8.				2- Dominance Test is >50%
9.				3- Prevalence Index is ≤3.0 ¹
10.				4- Morphological Adaptations ¹ (Provide supporting
11.				data in Remarks or on a separate sheet)
		= Total Cover		5- Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Vegetation ¹ (Explain)
1. Rubus armeniacus	20	1	FAC	¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	20	= Total Cover		Hydrophytic
% Bare Ground in Herb Stratum 10				Vegetation Yes No X
				Present?
Remarks:				1

US Army Corps of Engineers

Sampling Point: 139

Profile Description	: (Describe to	the depth	needed to docume	ent the indicat	or or cor	nfirm the	e absence of ind	dicators.)
Depth	Matrix		R	edox Features				
<u> </u>		0/			Turne ¹	1	Taxtura	Demortes
<u> </u>	or (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16 1	0YR 5/6	100					sand	
¹ Type: C=Concent	ration D-Donlat	ion PM_P	aduced Matrix, CS	-Covered or C	ootod So	ad Grain	210	cation: PL=Pore Lining, M=Matr
					Ualeu Sal	iu Grain		
Hydric Soil Indicate	ors: (Applicable	e to all LRI	ks, unless otherw	ise noted.)			Indicators for	Problematic Hydric Soils ³ :
Histosol (A1)			Sandy Redox (S5)	)			2 cm Muck	(A10)
Histic Epipedor	n (A2)		Stripped Matrix (S					t Material (TF2)
			- ·· ·	,		4)		ow Dark Surface (TF12)
Black Histic (A			Loamy Mucky Min			,		
Hydrogen Sulfic			Loamy Gleyed Ma	. ,			Other (Exp	olain in Remarks)
Depleted Belov	v Dark Surface (A	A11)	Depleted Matrix (F	-3)				
Thick Dark Sur	face (A12)		Redox Dark Surfa	ce (F6)			³ Indicators of h	ydrophytic vegetation and
Sandy Mucky N	/lineral (S1)		Depleted Dark Su	rface (F7)			wetland hy	drology must be present,
Sandy Gleyed I	Matrix (S4)		Redox Depression	ns (F8)			unless dist	urbed or problematic.
Restrictive Layer (i	f present):							
Type:								
Depth (inches):					Hvd	Iric Soil	Present? Y	es No X
1 ( )			•					
Remarks:								
HYDROLOGY								
Wetland Hydrology	Indicators:							
Primary Indicators		roquirod	check all that apply	0			Secondary	Indicators (2 or more required)
	•	requireu,						
Surface Water	. ,		Water-Stained		except M	LRA		Stained Leaves (B9) (MLRA 1, 2,
High Water Tat	· · ·		1, 2, 4A, and	•				and 4B)
Saturation (A3)			Salt Crust (B1	1)				ge Patterns (B10)
Water Marks (E	31)		Aquatic Inverte	ebrates (B13)			Dry-Sea	ason Water Table (C2)
Sediment Depo	osits (B2)		Hydrogen Sulfi	ide Odor (C1)			Saturati	ion Visible on Aerial Imagery (C9)
Drift Deposits (	B3)		Oxidized Rhizo	spheres along	Living Ro	oots (C3	) Geomo	rphic Position (D2)
Algal Mat or Cr	ust (B4)		Presence of R	educed Iron (C	4)		Shallow	/ Aquitard (D3)
Iron Deposits (I			Recent Iron Re	eduction in Tille	d Soils (0	C6)		eutral Test (D5)
Surface Soil Cr			Stunted or Stre		`	· ·		Ant Mounds (D6) (LRR A)
	ble on Aerial Ima	agerv(B7)	Other (Explain		, (	,		eave Hummocks (D7)
	ated Concave S			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
		411400 (20)						
Field Observation	s:							
Surface Water Pres	sent? Yes	No		(Inches): N/	4			
Water Table Prese	nt? Yes	No	X Depth	(Inches): >1	6			
Saturation Present	? Yes	No	X Depth	(Inches): >1	6	Wetla	nd Hydrology P	Present? Yes <u>No X</u>
(includes capillary f	fringe)							
Describe Recorded	I Data (stream ga	auge, moni	toring well, aerial p	hotos, previous	s inspecti	ons), if a	vailable	
	. 0	-		-				
Remarks:								

Project/Site: Newport Municipal Airport				City/County: City of Newport				Sampling Dat	e: 24-Se	p-2019
Applicant/Owner:	City of Ne	ewport				State:	OR	Sampling Poi	nt: 1	40
Investigator(s): Luke Johnson and Amanda Brophy				Section, Township, Range: Section 29, T				ownship 11 S, Range 11 S		
Landform (hillslope,	terrace, e	etc.): hillslope		Local relief (co	oncave, conve	ex, none):	conave	5	Slope (%):	3
Subregion (LRR):	A2 - Willa	amette Valley	Lat: 44.588	3563		Long: -124	1.04886	3 [	Datum: NAD8	3
Soil Map Unit Name	: 42C - I	Nelscott loam, 3 to 12	percent slopes			NW	l classif	ication: none		
Are climatic / hydrol	ogic cond	itions on the site typic	al for this time of	year? Yes	No X	(If no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly di	isturbed?	Are "Norma	I Circums	tances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed,	explain ar	iy answe	ers in Remarks	.)	

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

Hydrophytic Vegetation Present?	Yes	X No					
Hydric Soil Present?	Yes	No	X	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Remarks: Recorded precipitation in	nrevious m	onthe was	s helow norm	al range			

Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

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

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Profile Description: (Describe to the de	pth needed to document	the indicato	r or cor	nfirm the	e absence of ind	icators.)
Depth Matrix	Redo	x Features				
(inches) Color (moist) %		%	Type ¹	Loc ²	Texture	Remarks
0-8 10YR 2/1 100	-			<u></u>	silt loam	
8-14 10YR 6/3 90	10YR 5/6	10	С	M	silt loam	
					<u> </u>	
	_					
¹ Type: C=Concentration, D=Depletion, R			ated Sar	nd Grain	s. ² Loc	ation: PL=Pore Lining, M=Matr
Hydric Soil Indicators: (Applicable to al	LRRs, unless otherwise	noted.)			Indicators for I	Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)				2 cm Muck	(A10)
Histic Epipedon (A2)	Stripped Matrix (S6)				Red Parent	Material (TF2)
Black Histic (A3)	Loamy Mucky Minera	l (F1) <b>(excep</b>	t MLRA	. 1)	Very Shallo	w Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix	(F2)			Other (Expla	ain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)					
Thick Dark Surface (A12)	Redox Dark Surface	. ,			-	drophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted Dark Surfac	. ,				Irology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (	F8)			unless distu	irbed or problematic.
Restrictive Layer (if present):						
Туре:						
Depth (inches):			Hyd	Iric Soil	Present? Ye	es <u>No X</u>
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one requi	red; check all that apply)				Secondary I	Indicators (2 or more required)
Surface Water (A1)	Water-Stained Lea	aves (B9) ( <b>e</b> x	cept M	LRA	Water-S	tained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A, and 4E		•			ind 4B)
Saturation (A3)	Salt Crust (B11)				Drainage	e Patterns (B10)
Water Marks (B1)	Aquatic Invertebra					son Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide					on Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizosph	-	-	oots (C3)		phic Position (D2)
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Redu Recent Iron Redu			<u>)</u>		Aquitard (D3) utral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stresse		`	,		Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery(E		-	, (	,		eave Hummocks (D7)
Sparsely Vegetated Concave Surface	(B8)					
Field Observations:						
Surface Water Present? Yes	No X Depth (Inc	hes): NA				
Water Table Present? Yes	No X Depth (Inc					
Saturation Present? Yes	No X Depth (Inc	hes): >16	_	Wetla	nd Hydrology Pr	resent? Yes <u>No X</u>
(includes capillary fringe)	nonitoring well porial shot		inenceti	one) if a	wailable	
Describe Recorded Data (stream gauge, I	nomoning well, aerial phot		inspection	uns), II a		
Remarks:						

Project/Site: Newport Municipal Airport			City/County: City of Newport			Sampling Date	e: 24-Sep	-2019		
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Poin	t: 142	2
Investigator(s): Luke	e Johnson a	and Amanda Brophy		Section, Tow	nship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S	
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	ncave, convex	, none):	concave	e S	lope (%):	1
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.588	8959	L	ong: -124	4.05092 ⁻	1 D	atum: NAD83	
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes			NW	l classifi	cation: none		
Are climatic / hydrol	ogic conditi	ons on the site typic	al for this time of	year? Yes	No X	(lf no	, explaii	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	iy answe	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present?	Yes	Х	No				
Hydric Soil Present?	Yes	Х	No	Is the Sampled Area			
Wetland Hydrology Present?	Yes	Х	No	within a Wetland?	Yes	Х	No

Remarks: Recorded precipitation in previous months was below normal range

VEGETATION – Use scientific names of plants.

#### Absolute Dominant Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' R) % Cover Species? Status Number of Dominant Species 1. Alnus rubra 30 1 FAC That Are OBL, FACW, or FAC: 2. 3. Total Number of Dominant Species Across All Strata: 4. 30 = Total Cover Sapling/Shrub Stratum (Plot size: 30' R) Percent of Dominant Species

1. Rubus spectabilis	10	1	FAC	That Are OBL, FACW, or	FAC: 100.0	00 (A/B)
2						
3				Prevalence Index work		
4				Total % Cover of:	Multiply	/ by:
5				OBL species	x 1=	
	10	= Total Cover		FACW species	x 2=	
Herb Stratum (Plot size: 5' R)				FAC species	x 3=	
1. Lysichiton americanus	5	1	OBL	FACU species	x 4=	
2. Carex obnupta	5	1	OBL	UPL species	x 5=	
3				Column Totals:	(A)	(B)
4						
5				Prevalence Index =	B/A = <u>0</u>	
6				Hydrophytic Vegetation	n Indicators:	
7				1- Rapid Test For Hy	drophytic Vegeta	ation
8				X 2- Dominance Test is	s >50%	
9.				3- Prevalence Index	is ≤3.0 ¹	
10.				4- Morphological Ada	aptations ¹ (Provid	de supporting
11.				data in Remarks o	or on a separate	sheet)
	10	= Total Cover		5- Wetland Non-Vase	cular Plants ¹	
Woody Vine Stratum (Plot size: 30' R)		_		6- Problematic Hydro	ophytic Vegetatio	n ¹ (Explain)
1.				¹ Indicators of hydric soi	l and wetland hy	drology must
2.				be present, unless distu		
		= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum		-		Vegetation Yes	X	No
				Present?		
Remarks:				1		

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4

4

(A)

(B)

Sampling Point: 142

	h needed to document the indicator or confi	rm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type ¹ I	Loc ² Texture Remarks
0-16 10 YR 2/1 100		silt loam mucky/greasy texture
	Reduced Matrix, CS=Covered or Coated Sand	<b>9</b> ,
Hydric Soil Indicators: (Applicable to all L	RRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1	
X Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)		³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Dark Surface (F6)	
	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):		
Type:	—	
Depth (inches):	Hydrid	c Soil Present? Yes X No
Remarks: NEED REDOX?		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	t: check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required		Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLPA 1, 2
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1)	Water-Stained Leaves (B9) (except MLR	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required X Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) s (C3) Geomorphic Position (D2)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Iron Deposits (B5)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)         Sparsely Vegetated Concave Surface (E	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (E         Field Observations:       Surface Water Present?       Yes	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (E         Field Observations:       Surface Water Present?       Yes         X       Water Table Present?       Yes       X	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): 1 No Depth (Inches): 1	A Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (E         Field Observations:       Surface Water Present?       Yes         X       Water Table Present?       Yes	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): 1 No Depth (Inches): 1	<ul> <li>Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> <li>Saturation Visible on Aerial Imagery (C9)</li> <li>Geomorphic Position (D2)</li> <li>Shallow Aquitard (D3)</li> <li>FAC-Neutral Test (D5)</li> <li>Raised Ant Mounds (D6) (LRR A)</li> <li>Frost-Heave Hummocks (D7)</li> </ul>
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       Saturation Present?         Yes       X         (includes capillary fringe)       Image Present Present	Water-Stained Leaves (B9) (except MLR 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): 1 No Depth (Inches): 1	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         Staturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)         Raised Ant Mounds (D6) (LRR A)         Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?       Yes         X       Water Table Present?       Yes         Saturation Present?       Yes       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, model)	Water-Stained Leaves (B9) (except MLR  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): No Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         Staturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)         Raised Ant Mounds (D6) (LRR A)         Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required         X       Surface Water (A1)         X       High Water Table (A2)         X       Saturation (A3)         Water Marks (B1)       Sediment Deposits (B2)         Drift Deposits (B3)       Algal Mat or Crust (B4)         Iron Deposits (B5)       Surface Soil Cracks (B6)         Inundation Visible on Aerial Imagery(B7)       Sparsely Vegetated Concave Surface (E         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         X       Saturation Present?         Yes       X         (includes capillary fringe)       Image Present Present	Water-Stained Leaves (B9) (except MLR  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) X Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Root Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) 88) No Depth (Inches): No Depth (Inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Saturation Visible on Aerial Imagery (C9)         Staturation Visible on Aerial Imagery (C9)         Shallow Aquitard (D3)         FAC-Neutral Test (D5)         Raised Ant Mounds (D6) (LRR A)         Frost-Heave Hummocks (D7)

Project/Site: Newport Municipal Airport			City/County: City of Newport			Sampling Date	e: 24-Sep	-2019		
Applicant/Owner:	City of Nev	vport				State:	OR	Sampling Poin	it: 14	3
Investigator(s): Luke Johnson and Amanda Brophy			Section, Tow	nship, Range:	Sectio	n 29, To	wnship 11 S, R	ange 11 S		
Landform (hillslope,	terrace, et	c.): hillslope		Local relief (co	ncave, convex	, none):	none	S	lope (%):	4
Subregion (LRR):	A2 - Willar	nette Valley	Lat: 44.588	8924	L	ong: -124	1.05089	3 D	atum: NAD83	3
Soil Map Unit Name	: 42C - N	elscott loam, 3 to 12	percent slopes			NW	l classif	cation: none		
Are climatic / hydrol	ogic conditi	ons on the site typic	al for this time of	year? Yes	No X	(lf no	, explai	n in Remarks.)		
Are Vegetation	Soil	or Hydrology	significantly d	isturbed?	Are "Normal	Circumst	ances"	present' Yes	X No	
Are Vegetation	Soil	or Hydrology	naturally prob	lematic?	(If needed, e	xplain an	y answe	ers in Remarks.)	)	

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

Hydrophytic Vegetation Present?	Yes	No	Х				
Hydric Soil Present?	Yes	No	Х	Is the Sampled Area			
Wetland Hydrology Present?	Yes	No	Х	within a Wetland?	Yes	No	Х
Pomarka: Recorded precipitation in provinue months was below particul range							

Remarks: Recorded precipitation in previous months was below normal range

#### **VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: 30' R)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species	
1. Tsuga heterophylla	60	1	FACU	That Are OBL, FACW, or FAC:	1 (A)
2 Frangula purshiana	10		FAC		I (A)
3.	10		TAC	Total Number of Dominant	
4.				Species Across All Strata:	5 (B)
	70	= Total Cover			(_)
Sapling/Shrub Stratum (Plot size: 30' R)				Percent of Dominant Species	
1. Gaultheria shallon	10	1	FACU	That Are OBL, FACW, or FAC:	20.00 (A/B)
2. Tsuga heterophylla	30	1	FACU		
3.				Prevalence Index worksheet:	
4				Total % Cover of:	Multiply by:
5				OBL species x 1	=
	40	= Total Cover			=
Herb Stratum (Plot size: 5' R)					=
1. Polystichum munitum	20	1	FACU	FACU species x 4=	=
2. Blechnum spicant	10	1	FAC		=
3.				Column Totals: (A)	(B)
4.					
5.				Prevalence Index = B/A =	<u>0</u>
6.				Hydrophytic Vegetation Indicate	ors:
7				1- Rapid Test For Hydrophytic	Vegetation
8.				2- Dominance Test is >50%	
9				3- Prevalence Index is ≤3.0 ¹	
10.				4- Morphological Adaptations ¹	(Provide supporting
11.				data in Remarks or on a ser	parate sheet)
	30	= Total Cover		5- Wetland Non-Vascular Plan	nts ¹
Woody Vine Stratum (Plot size: 30' R)				6- Problematic Hydrophytic Ve	egetation ¹ (Explain)
1				¹ Indicators of hydric soil and wetle	and hydrology must
2.				be present, unless disturbed or p	roblematic.
		= Total Cover		Hydrophytic	
% Bare Ground in Herb Stratum				Vegetation Yes	No X
				Present?	
Remarks:				1	

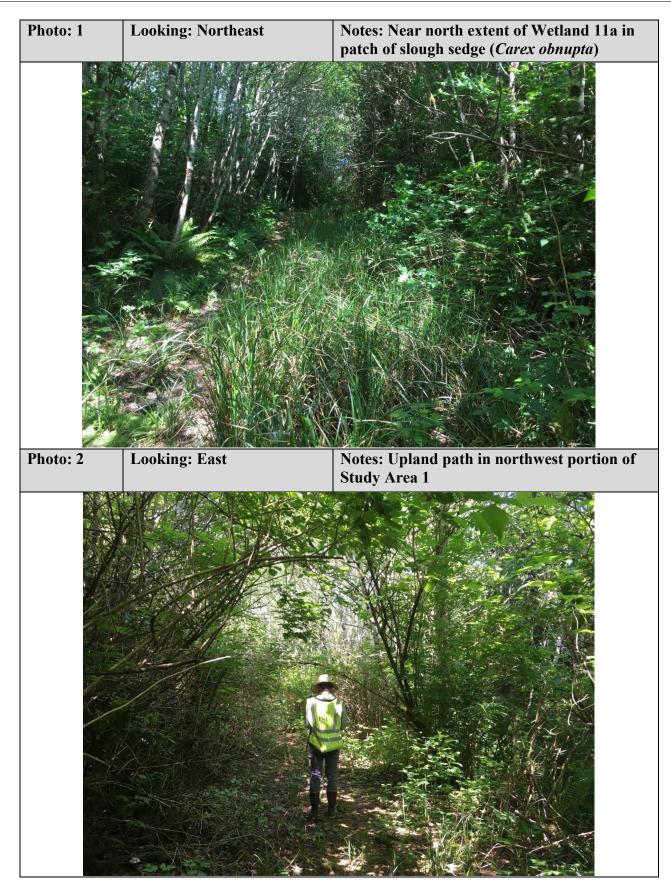
US Army Corps of Engineers

Sampling Point: 143

Denath March	epth needed to document the indicator or confirm t	he absence of indicators.)		
Depth Matrix	Redox Features	_		
(inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks		
0-16 10YR 4/3 90		silt loam		
0-16 10YR 6/6 10		sandstone large fragments of bedrock		
¹ Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, CS=Covered or Coated Sand Gra	ins. ² Location: PL=Pore Lining, M=Matr		
Hydric Soil Indicators: (Applicable to al	I LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :		
Histosol (A1)	Sandy Redox (S5)	2 cm Muck (A10)		
Histosof (A1) Histic Epipedon (A2)	Stripped Matrix (S6)	Red Parent Material (TF2)		
		Very Shallow Dark Surface (TF12)		
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)			
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)		
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)			
Thick Dark Surface (A12)	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and		
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	wetland hydrology must be present,		
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	unless disturbed or problematic.		
Restrictive Layer (if present):				
Type:				
Depth (inches):	Hydric Sc	il Present? Yes No X		
· · · · ·				
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:				
Wolland Hydrology maloatoro.				
Primary Indicators (minimum of one requi	red: check all that apply)	Secondary Indicators (2 or more required)		
Primary Indicators (minimum of one requi		Secondary Indicators (2 or more required)		
Surface Water (A1)	Water-Stained Leaves (B9) (except MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,		
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)		
Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Standd Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stand Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stand Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)		
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Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(I Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) (except MLRA  1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) (B8) No X Depth (Inches): NA No X Depth (Inches): >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)		
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery(I Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) (except MLRA         1, 2, 4A, and 4B)         Salt Crust (B11)         Aquatic Invertebrates (B13)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres along Living Roots (C         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Stunted or Stressed Plants (D1) (LRR A)         37)         Other (Explain in Remarks)         e(B8)         No       X         Depth (Inches):       >16         No       X         Depth (Inches):       >16	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) No X		
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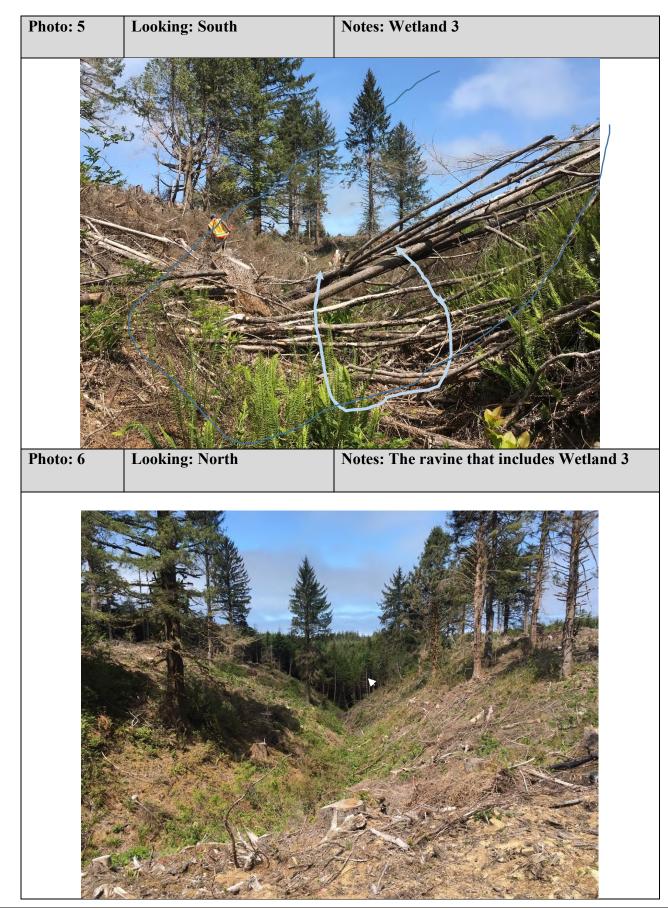
# **APPENDIX C**

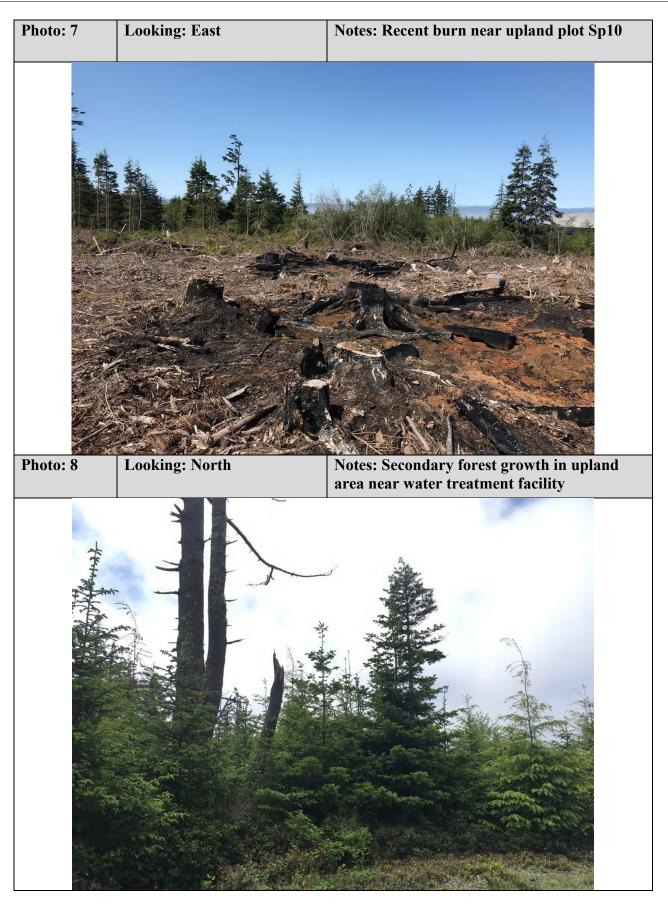
Photos



Newport Municipal Airport Obstruction Removal





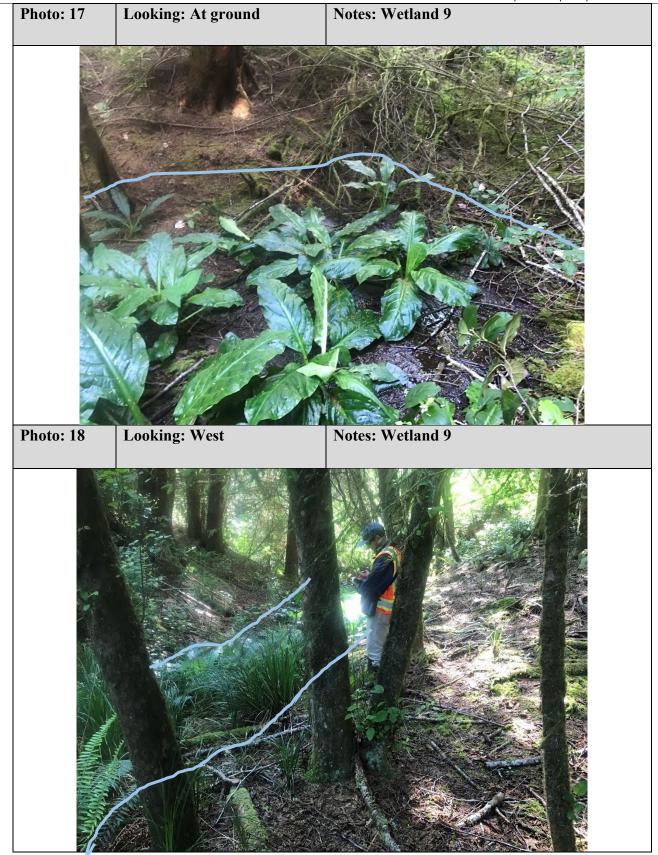


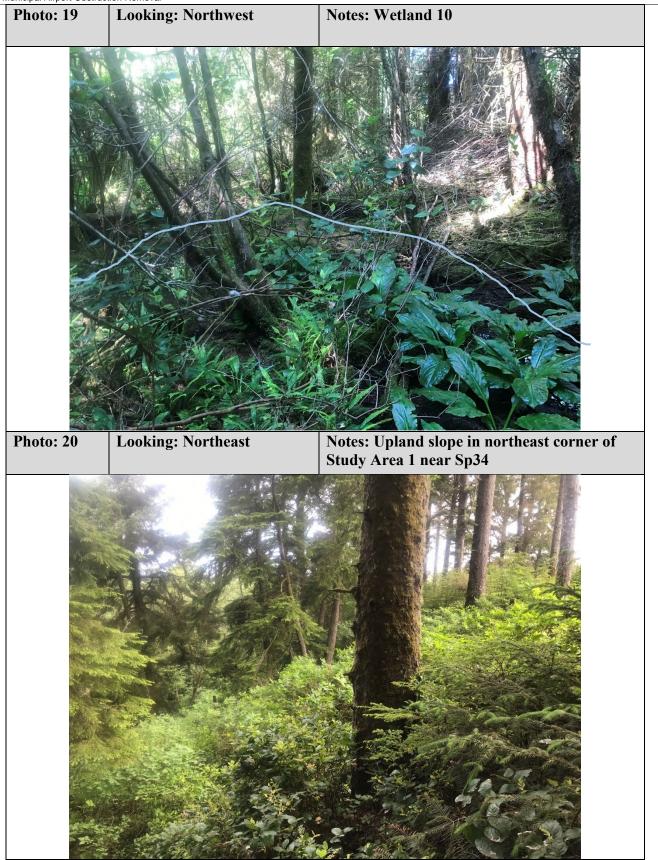




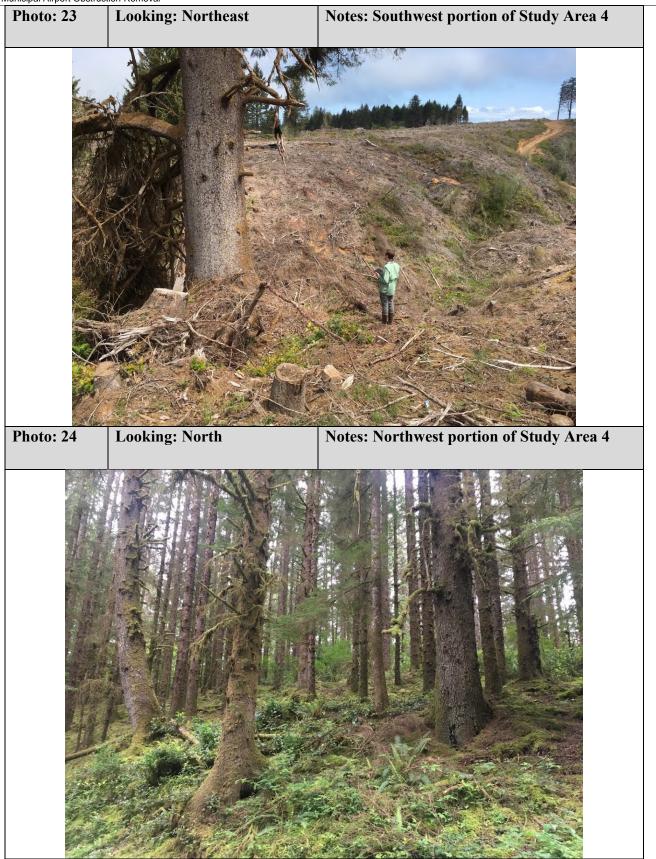


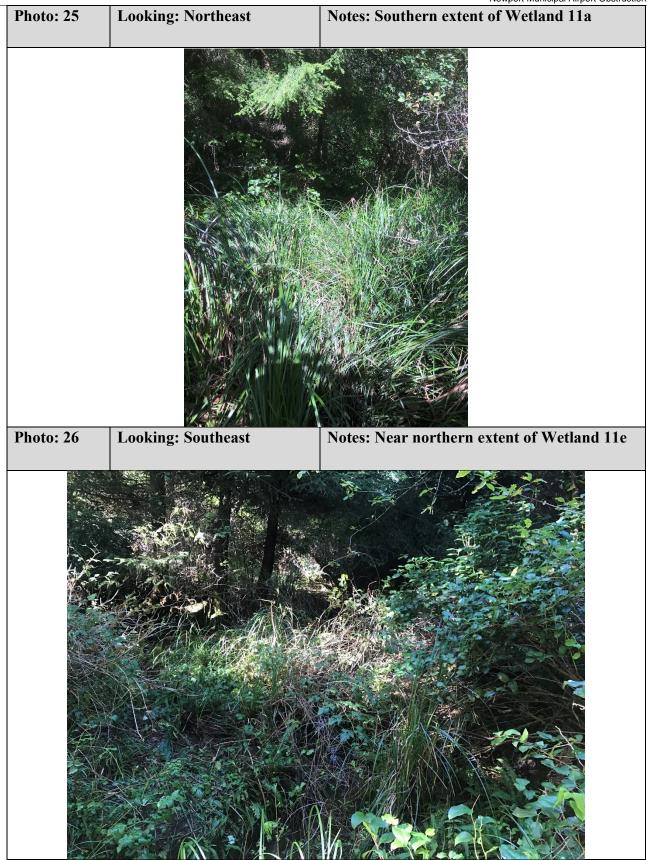




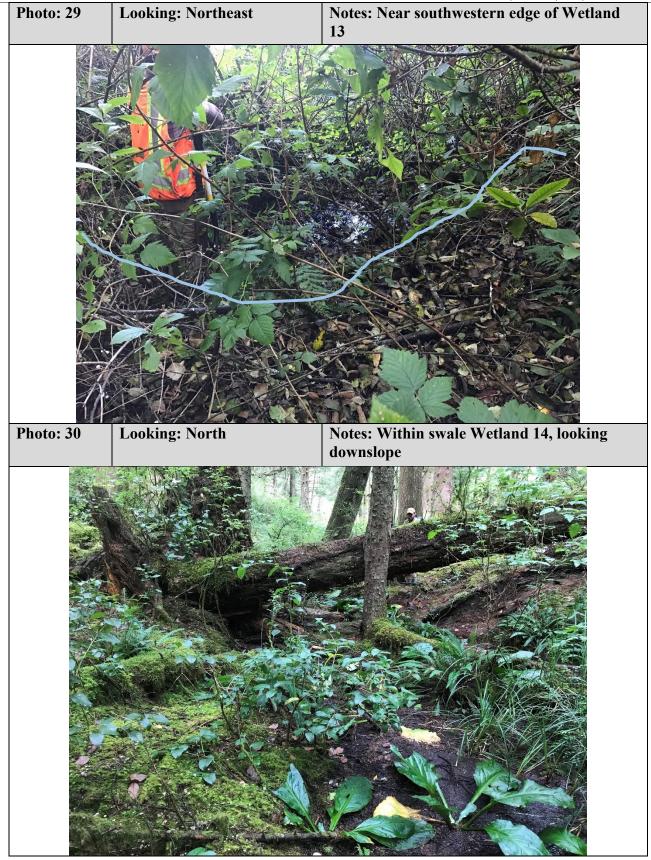








Municipal Airport Obstru Photo: 27	Looking: Southeast	Notes: Near northern edge of Wetland 11b
1. 1.		
C.K.		
Photo: 28	Looking: East	Notes: Near lateral midpoint of Wetland 12, forest-access road (left)
		IOPEST-ACCESS LOAD HELD
	A Sur	



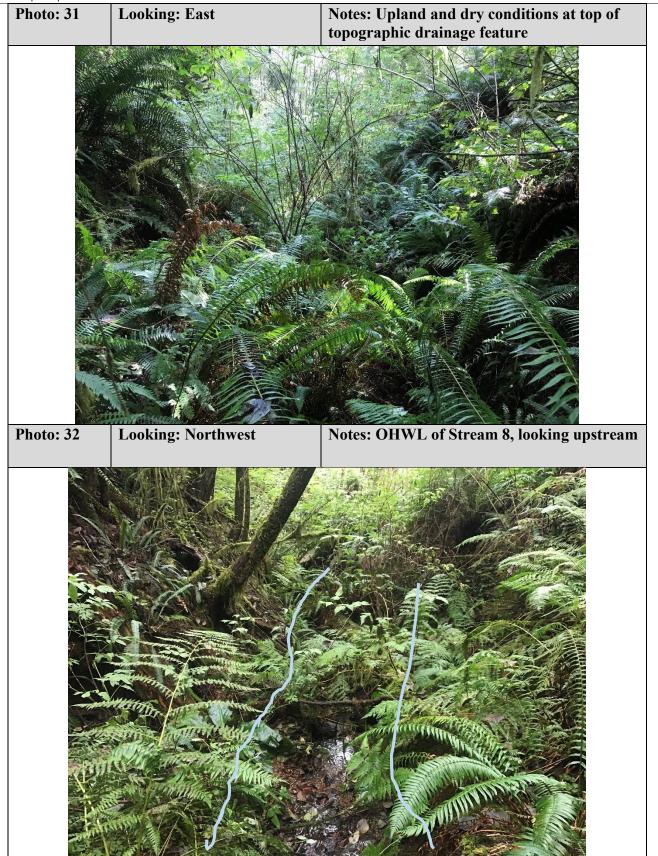
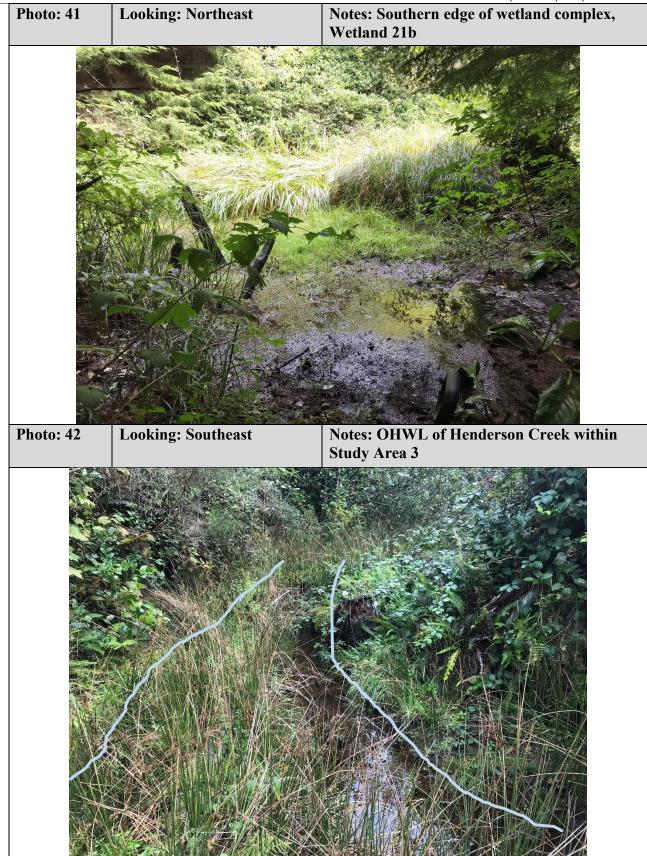


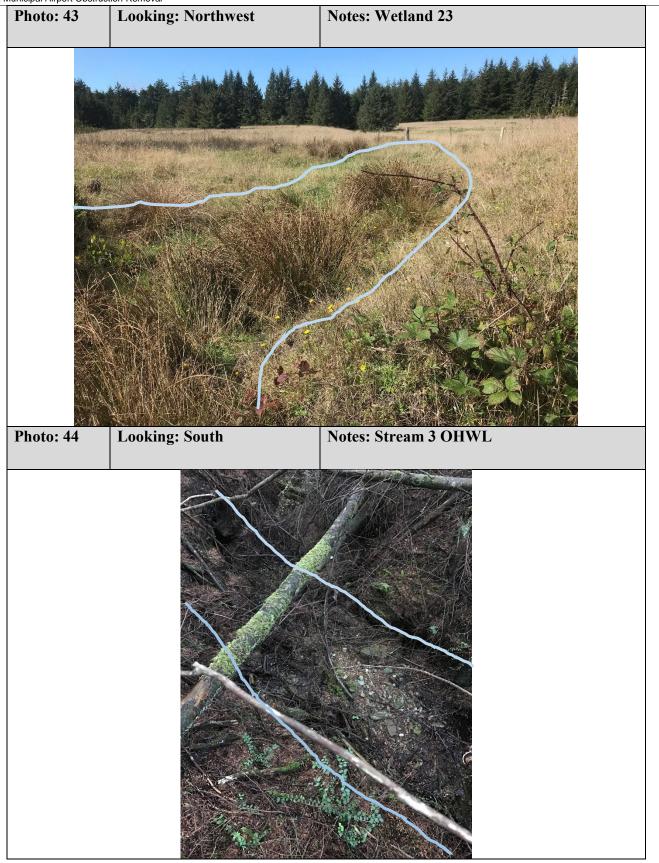


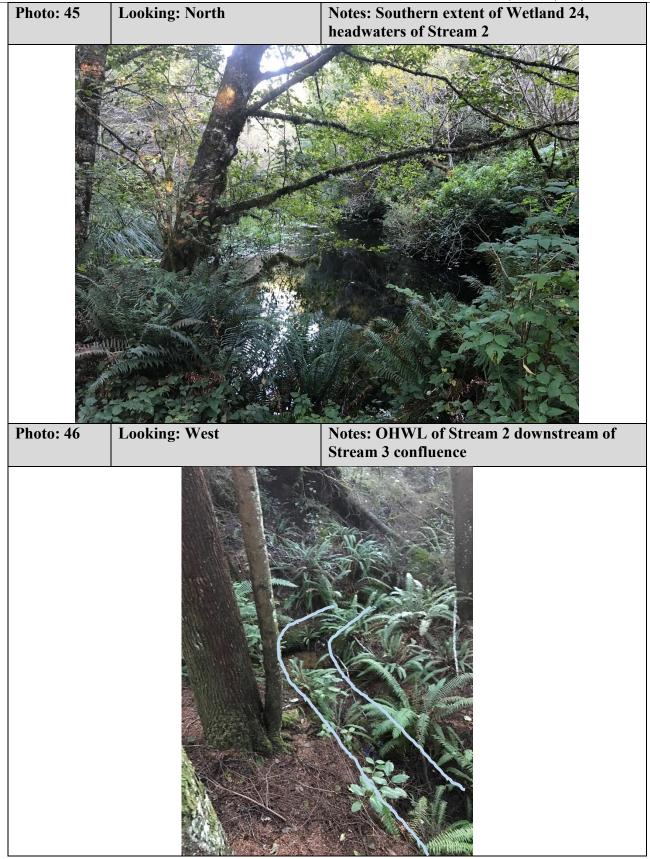
Photo: 35	Looking: Southeast	Notes: Upland alder forest within topographic drainage feature
Photo: 36	Looking: Southwest	Notes: Standing on upland plateau, looking into Wetland 18
		<image/>











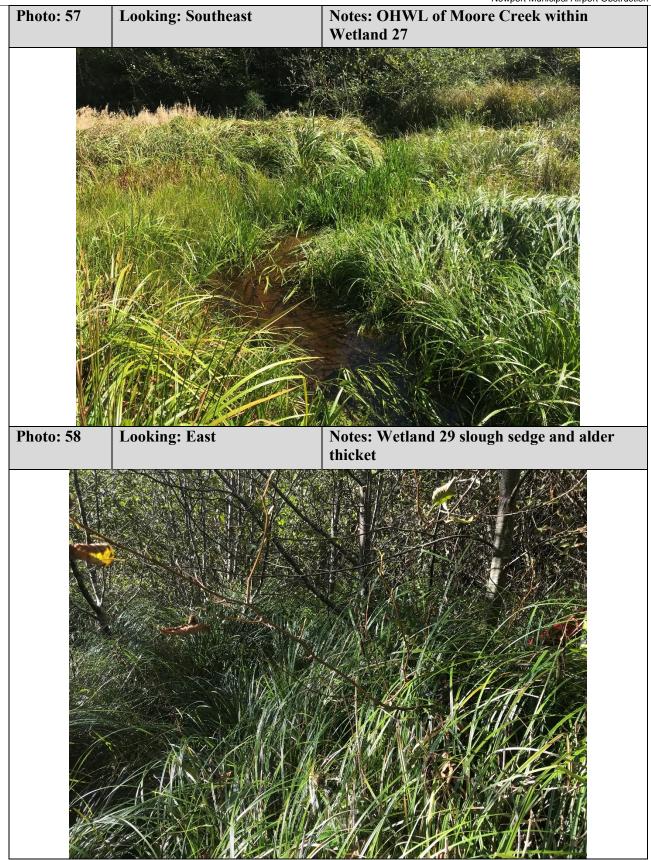




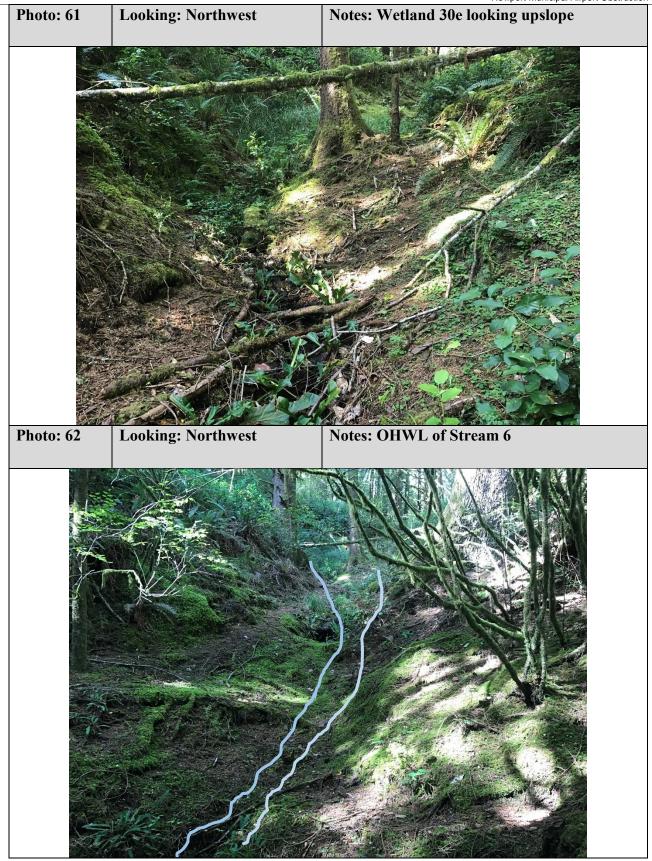












## **APPENDIX D**

Literature Cited

## **Appendix D: Literature Cited**

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