AIRPORT INDUSTRIAL SITE WETLAND DELINEATION REPORT

Linn County Tax Lots 12S02W16 2802 & 2804

Prepared for

City of Lebanon

Site Description

56.34 acres farmed for annual rye grass seed and hay

Site Centroid

Latitude 44.529142° N Longitude –122.933778° W

Prepared by

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A) Landscape Setting and Land Use

A.1 Site Description

The site is located on the north side of Airport Drive on the west side of the Lebanon urban growth boundary. The study area is the entire 56.34 acres that lie within Linn County tax lot 12S02W16 2802 & 2804 (see table below). Agricultural fields lie to the north, west and south with the Lebanon airport forming the east boundary and Airport Drive the southern boundary.

The site is cultivated for annual rye grass seed and has been used for agriculture for more than fifty years. Topographically, the site is flat sloping gently to the northwest with the highest elevation of 33 feet in the southeast corner and the lowest elevation of 331 feet in the northwest corner.

Site description	Lot size (acres)	Ownership	Address	
12S02W16 2802	25.67	Kristine Holtzinger	Farm use – address not assigned	
12S02W16 2804	30.67	Dale & Kathy Parker	36585 Airport Drive, Lebanon	

Table 1: Tax Lot Information

Little Oak Creek, an intermittent 1st order tributary flows diagonally northwesterly across the southwest corner of the site. The only area not used for agriculture on the parcels is a small 1-acre area surrounding a single-family residence in the south end of tax lot 2804.

A.2 Vegetation

Vegetation consists of the annual rye grass over most of the site. Hedge rows along boundaries and on interior fences contain patches of blackberry thickets. Most of tax lot 2804 is not cultivated for annual rye grass and it is mowed and harvested for hay. Vegetation includes a mix of pasture grasses and weeds with dominant vegetation mostly *Agrostis capillaris*, *Anthoxanthum odoratum*, *Schedonorus arundinaceus* and *Hypochaeris radicata*. Vegetation associated with the intermittent tributary includes *Phalaris arundinacea* and *Mentha pulegium*.

A.3 Soil

Two soil types are mapped on the site by the Linn County Soil Survey:

- Clackamas variant silt loam gravelly silt loam (24): not hydric with hydric inclusions
- Dayton silt loam (33): hydric

Field visits occurred in August and all soil pits were dug at least 20 inches with a backhoe due to the hard ground. All colors recorded for soil plots refer to moist soil. Soil texture was mostly silty clay loam with lessor amounts of gravelly silt clay loams. Soil chroma was typically 10YR, hues were dominantly 3 with values of 2. Soil in upland areas and in the broad transitional zone between upland and wetland were typically 10YR 3/2 silty clay loams within 20" of the surface. In shallow depressions where saturation persisted for extended periods, hydric soil indicator F6 was most common.

A.4 Hydrology

Hydrology is provided exclusively by precipitation. Low soil permeability and flat topography retains water and the flat terraces stay saturated, occasionally ponded for extended periods in the springtime.

The site slopes very gently to the northwest but evidence of surface flow was not evident. The intermittent channel in the southwest corner is known as Little Oak Creek, a 1st order tributary to Oak Creek which flows into the Willamette River near Albany. Little Oak Creek is not known to contain fish due to a series of fish barrier culverts between the site and the Willamette River located about ten miles west.

B) Site Alterations

Site alterations were observed

C) Precipitation Data and Analysis

The following table summarizes precipitation on the day of field visits, precipitation two weeks prior to the field investigation, the percent of normal rainfall for the water year to date, and the monthly percent of normal precipitation for each of the three months preceding the field investigation. All precipitation data is from the Corvallis Hyslop weather station (also referenced as "Corvallis State Univ."). Elevations on the site range from 338 to 331 feet above mean sea level and the Hyslop weather station elevation is 230 feet. The subject property lies about 14.5 miles southeast of the Hyslop Farm where the US Weather Service Station is located.

Rainfall in the months preceding the August site was normal or above normal since the start of the water year and similar for the calendar year. The site visit was conducted during the dry season and as a result primary wetland hydrology indicators were not observed.

	PPT		Recorded WETS A		% of Normal PPT for	3 months p	of normal ppt receding site on WETS avg	visit based
Date of Site Visit	during site visit	PPT two weeks preceding	October (thru preceding month)	PPT for water year thru preceding month	water year based on WETS Avg.	Preceding month	2 nd preceding month	3 rd preceding month
8/14/17	0.04	0.15	58.43	41.46	141	0	106	75
8/17/17	0	0.19	58.43	41.46	141	O	106	75

Table 2: Precipitation preceding site visits

Month	Rainfall recorded	WETS*	Rainfall relative to	30% Chance rai	nfall will be	30% WETS range
Month	for Water Year	average rainfall	WETS* average	Less than	More than	comparison to recorded rainfall
October	12.15	3.02	402%	1.70	3.68	Above
November	7.78	6.94	112%	4.55	8.34	Within
December	5.16	7.43	69%	5.03	8.88	Within
January	5.33	6.46	83%	3.95	7.82	Within
February	12.48	5.71	219%	3.91	6.80	Above
March	8.11	4.59	177%	3.46	5.35	Above
April	4.14	2.98	139%	2.09	3.53	Above
May	1.73	2.30	75%	1.52	2.81	Within
June	1.55	1.46	106%	0.93	1.76	Within
July	0	0.57	О	0.17	0.68	below
TOTAL	58.43	41.46	141%	27.31	49.65	Above

*WETS Data from Corvallis State University WETS Station 1971-2000

Table 3: Precipitation Summary based on Corvallis Hyslop Weather Station data

D) Methods

For the office work that occurred prior to the site visit, we acquired a collection of recent orthophotos and wet season historical air photos. The information was used to prioritize areas for review during field visits. In addition, the site was reviewed using the Google Earth and Microsoft Bing websites. The areas to investigate were plotted as vector shapefiles to be used with the mobile GIS/GPS field equipment.

Normal circumstances exist on the site; however, the site visits occurred in the normally dry season of the year. As a result, hydrology was based on secondary indicators when present. Other information such as position in the landscape and hydric soil indicators was also used to aid in formulating a best professional judgement decision. In addition, procedures for difficult wetland situations from the Corps regional supplemental manual were followed when necessary because primary hydrology was not present. The following procedure from Chapter 5 of the Corps supplement regional manual was considered when necessary because the site visit occurred in the dry season of the year.

SITE VISIT DURING DRY SEASON

Chapter 5 - Difficult Wetland Situations

Problem area as a result of lack of wetland hydrology due to normal seasonal rainfall variability Wetlands that periodically lack indicators of wetland hydrology

Step 1: Verify indicators of hydrophytic vegetation and hydric soil are present or absent.

FIELD OBSERVATION FOR WETLAND PLOT: Hydrophytic vegetation and hydric soil are present.

Step 2: Verify area is in landscape position likely to collect or concentrate water.

FIELD OBSERVATION FOR WETLAND PLOT: Area is depression with a concave surface
Step 3: Site visits during the dry season

CONCLUSION: If the site visit occurred during the dry season on a site that contains hydro

CONCLUSION: If the site visit occurred during the dry season on a site that contains hydric soils and hydrophytic vegetation and no significant hydrologic manipulation (e.g., no dams, levees, water diversions, land grading, etc., and the site is not within the zone of influence of any drainage ditches or subsurface drains), then consider the site to be a wetland.

Site visits occurred on August 14 and August 17, 2017. A backhoe was used to dig all the soil pits. The site has been farmed for more than 75 years so vegetation was considered less of a factor for determining wetland status. Fieldwork was guided by multiple information sources including recently flown, high-resolution orthophotography and LIDAR topographic data. Soil colors were recorded for moist soil. Digital georeferenced photographs were taken to document site conditions (Appendix C). More than 60 soil pits were dug and thirty-five (35) data plots are included to document the upland/wetland boundaries. Sample plots were completed for paired plots, depressions, suspect areas where micro-topography indicated the potential presence of wetland, and areas of possible saturation seen on early growing season aerials. The OHWM for the intermittent channel was located by identifying the top of the bank on each side of the channel.

The upland/wetland boundary and sample plot locations were mapped using a sub-meter resource grade GPS and a mobile GIS/GPS system that included a hand-held computer running ArcPad 10.0, linked by Bluetooth to the GPS receiver. All GPS mapping and field data were saved as ArcPad shape files, post-processed to ensure sub-meter accuracy, then downloaded to ArcGIS version 10.0 and MapInfo Professional version 12.5 GIS programs. All GPS data was post-processed using the Corvallis CORS station to sub-meter accuracy.

Field information including wetland/upland boundaries and accompanying figures meet the required DSL map precision standard of one meter precision for transferring boundaries of features on the ground to the maps included in this report. The GPS post-processing error estimate for the mapping precision is one meter.

E) Description of All Wetlands and Other Non-Wetland Waters

Two wetland areas were identified with a total of 43.42 acres of wetland. A 620-foot long section of Little Oak Creek flows through across the southwest corner of tax lot 2802. The study area is a mostly flat agriculture field with a single-family residence and two outbuildings present in the southeast corner of tax lot 2804. At the time of the site visit, the entire site had been mowed. Tax lot 2802 had been cultivated with annual rye grass and most of tax lot 2804 had not been cultivated but contained a mix of pasture grasses and weedy species. Fence rows around the property boundary and in the interior contained patches of blackberry thickets. The southeast corner is the highest elevation at 348 feet with the lowest elevation of 341 feet in the northwest corner, seven feet of gradient over more than 1,800 feet. Flat topography and poorly drained soils contribute to most of the site meeting wetland criteria. The study area covers approximately 56 acres with about 12 acres upland and the remainder wetland.

Wetland A is a 39.80-acre area on the north end of the study area. Four small isolated upland areas are present near the northern property boundary. The area around the residence, a narrow strip bordering the north side of the creek and a small area on the south side of the creek are the only other upland areas.

Wetland B is a 3.62-acre area that straddles a 620-foot long stretch of Little Oak Creek, a first order tributary to Oak Creek. The creek width to the top of bank varies from 4 feet to 20 feet. The intermittent creek is included in the wetland acreage because vegetation is present in the channel below the OHWM. The wetland is a seasonally saturated depressional feature with ponding persisting in small, deeper depressions.

Wetland extends off the site on the west, north and east side of Wetland A and wetland extends off the site on the west side of Wetland B. The intermittent creek enters the site at the south end from a culvert under Airport Drive.

Wetland Size	Wetland Category	Other Waters	Description
Wetland A: 39.80 acres	PEM		Farmed Wetland
Wetland B: 3.62 acres	PEM	620' section of Little Oak Ck.	raimeu wedanu
TOTAL: 43.42 acres wetland		0.20 acres Waters (included in wetland acres)	

Table 4: Summary of Wetland Areas

F) Deviation from LWI or NWI

The NWI does not identify wetland on the subject property but does identify Little Oak Creek as a R4SBC waterway. The current study identified Little Oak Creek as a vegetated intermittent channel in Wetland B.

G) Mapping Method

Mapping of the wetland boundary, sample plot locations and top of bank along Airport Industrial Creek was completed using a mobile GIS/GPS system that included a hand-held computer running ArcPad, linked by Bluetooth to a Geneq SXBlue II GNSS GPS receiver. All GPS mapping and field data was saved as ArcPad shapefiles, which were downloaded to ArcGIS and MapInfo Professional GIS programs. Field data was post-processed using the Corvallis CORS base station data and Effigis OnPoz EZSurv software to verify sub-meter horizontal accuracy.

Field information, including wetland/upland boundaries and sample plot locations on accompanying figures, meets the required DSL map precision standard of one-meter precision for transferring boundaries of features on the ground to the maps included in this report. The GPS post-processed horizontal mapping precision is sub-meter. Boundaries for the area investigated (shown on the delineation map) are based on GPS readings from visible property corners, and the Linn County GIS tax lot parcel database.

H) Additional Information

The study area is a farmed site so four early growing season aerials were reviewed. The high resolution 1998, 2005, and 2012 orthophotography (Figure 5A, 5C and 5D, 6 inch to 1 foot resolution) was provided by City of Lebanon GIS department. Linn County GIS Department provided the 2000 orthophoto (Figure 5B, 1 foot resolution). Aerial photography was useful to identify shading patterns that correlated with wetter areas. Shading indicative of wet areas was similar across the years, however, subtle differences exist between wet season aerials and the geometry and area of shaded patterns does not consistently correlate. Variability may be due to preceding rainfall, type of crop cover, height of vegetation, grass predation, plow patterns and location of seasonal drainage ditches.

The Willamette Valley Phase 1 LIDAR dataset was acquired from the Oregon Lidar Consortium and translated using ESRI ArcGIS and Spatial Analyst to produce a gridded dataset. The gridded data was used to generate 1-foot contour elevation lines (Figure 6A) and a bare earth 3-dimensional shaded relief raster image (Figure 5E).

A previous wetland delineation completed by SWCA in 2006 (WD06-0234) identified 46.45 acres. Information from that report was used in the course of completing the current delineation. In 2012, Pacific Habitat Services completed a delineation "lite" evaluation (WD2013-0397) of the site for the Oregon Cascades West Council of Governments and identified 43.03 acres of wetland on the site. The wetland areas in the 2012 delineation are similar to those identified in the current study.

I) Results and Conclusions

The current delineation examined approximately 56.34 acres of a farmed site referenced as Linn County tax lots 12S02W16 2802 and 2804. The site lies outside the City of Lebanon city limits on the west side of the urban growth boundary. A single-family residence is present on tax lot 2804 with an address of 36585 Airport Drive. The site has been farmed for over 70 years.

Two wetland areas were identified with a total of 43.42 acres of wetland delineated. The wetlands are broad, flat depressions located in the alluvial flood plain of the Willamette Valley. A 1st order tributary, Little Oak Creek flows across the southwest corner of tax lot 2802.

J) Disclaimer

This report documents the investigation, best professional judgment and conclusions of the investigator. It is correct and complete to the best of my knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the Oregon Department of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.

Allen Martin, RG

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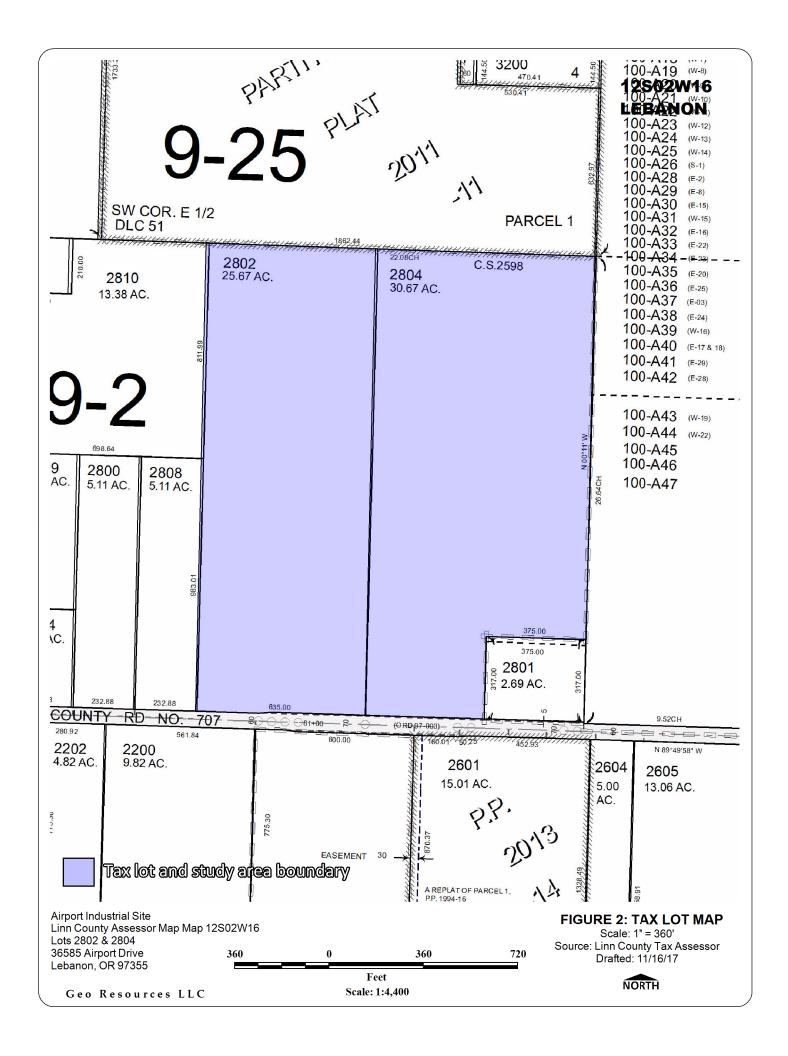
GREGON

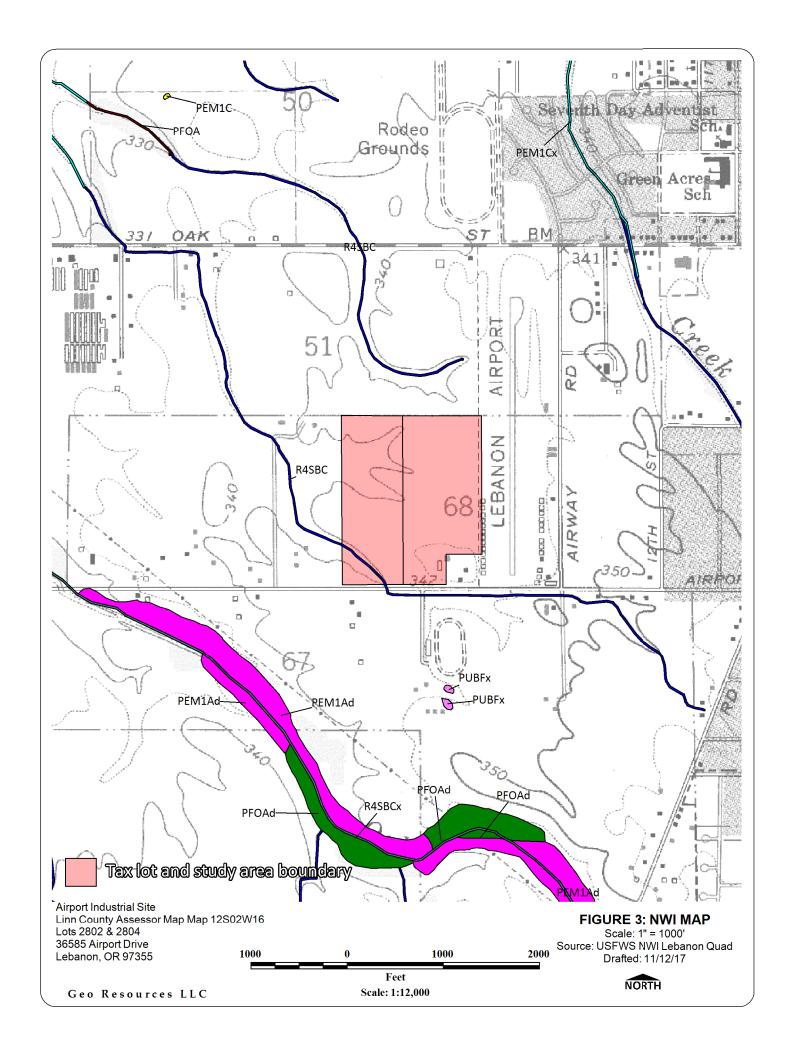
ALLEN E MASTERN

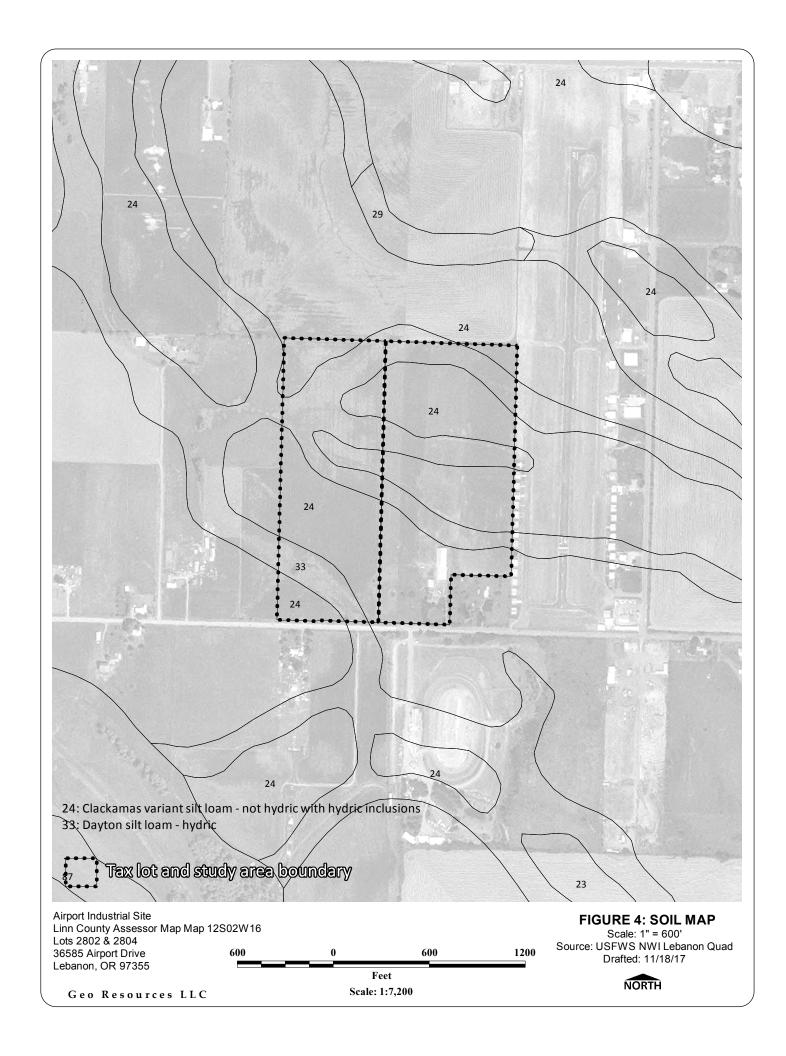
GREGON

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Airport Industrial Site
Linn County Assessor Map Map 12S02W16
Lots 2802 & 2804
36585 Airport Drive
Lebanon, OR 97355

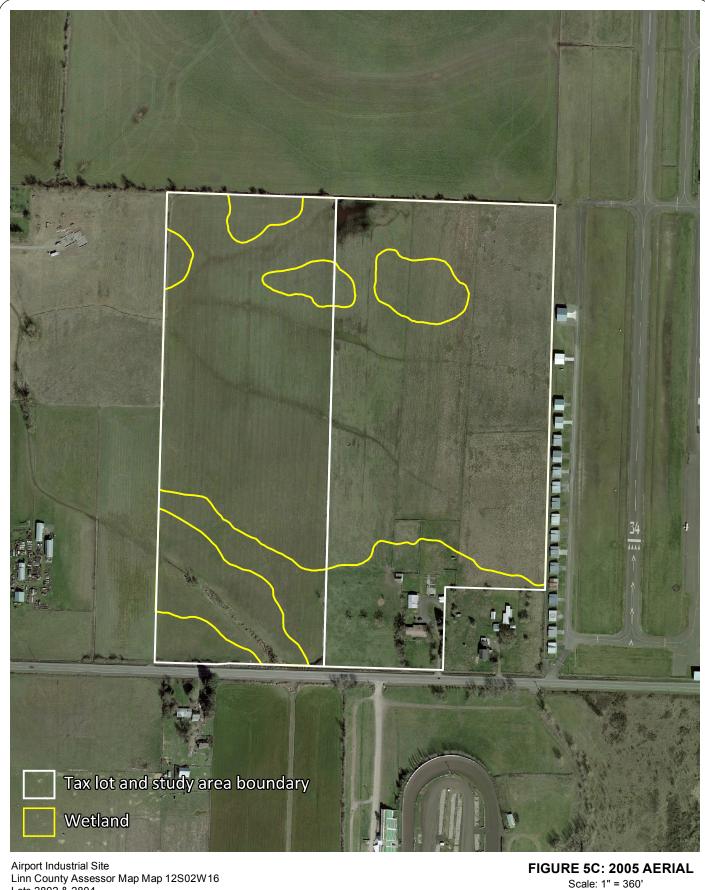
360 720 Feet Scale: 1:4,320

Geo Resources LLC

Scale: 1" = 360' Source: City of Lebanon orthophoto Flown: March 1998, 1 ft resolution Drafted: 11/18/17







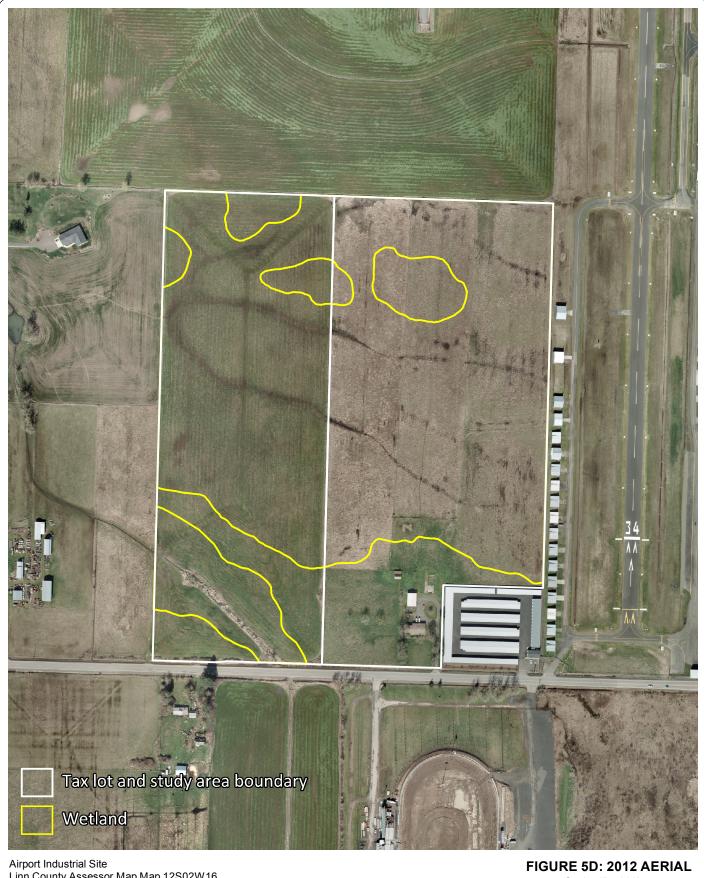
Airport Industrial Site
Linn County Assessor Map Map 12S02W16
Lots 2802 & 2804
36585 Airport Drive 360 Lebanon, OR 97355

Geo Resources LLC

360 720 Feet Scale: 1:4,320

Scale: 1" = 360' Source: City of Lebanon orthophoto Flown: March 8, 2005, 0.5 ft resolution Drafted: 11/18/17



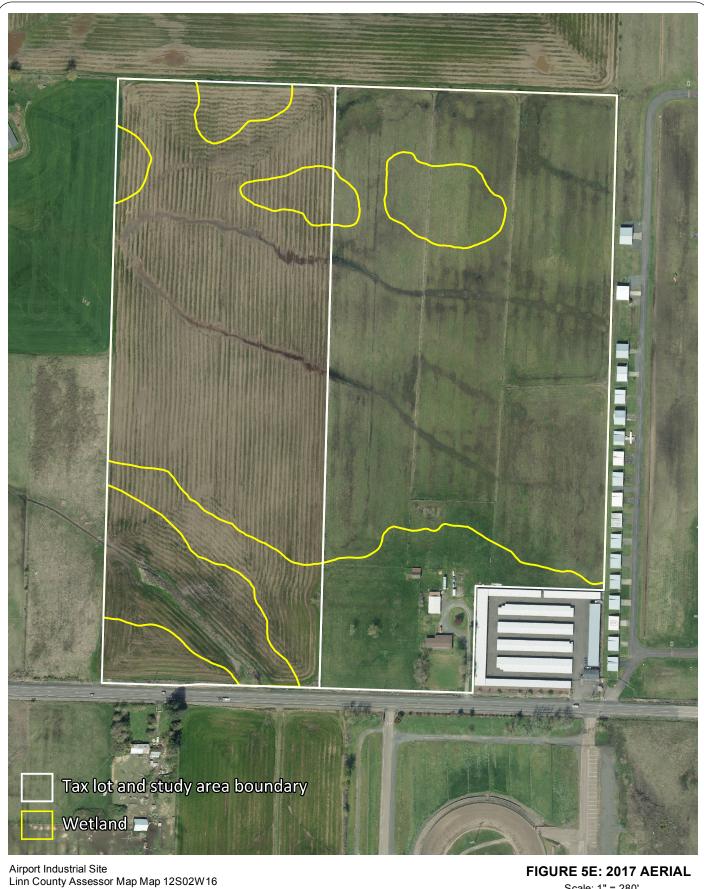


Airport Industrial Site
Linn County Assessor Map Map 12S02W16
Lots 2802 & 2804
36585 Airport Drive
Lebanon, OR 97355 360 720 Feet Scale: 1:4,320

Geo Resources LLC

Scale: 1" = 360' Source: City of Lebanon orthophoto Flown: March 7, 2012, 3" resolution Drafted: 11/18/17





Lots 2802 & 2804 36585 Airport Drive Lebanon, OR 97355

Geo Resources LLC

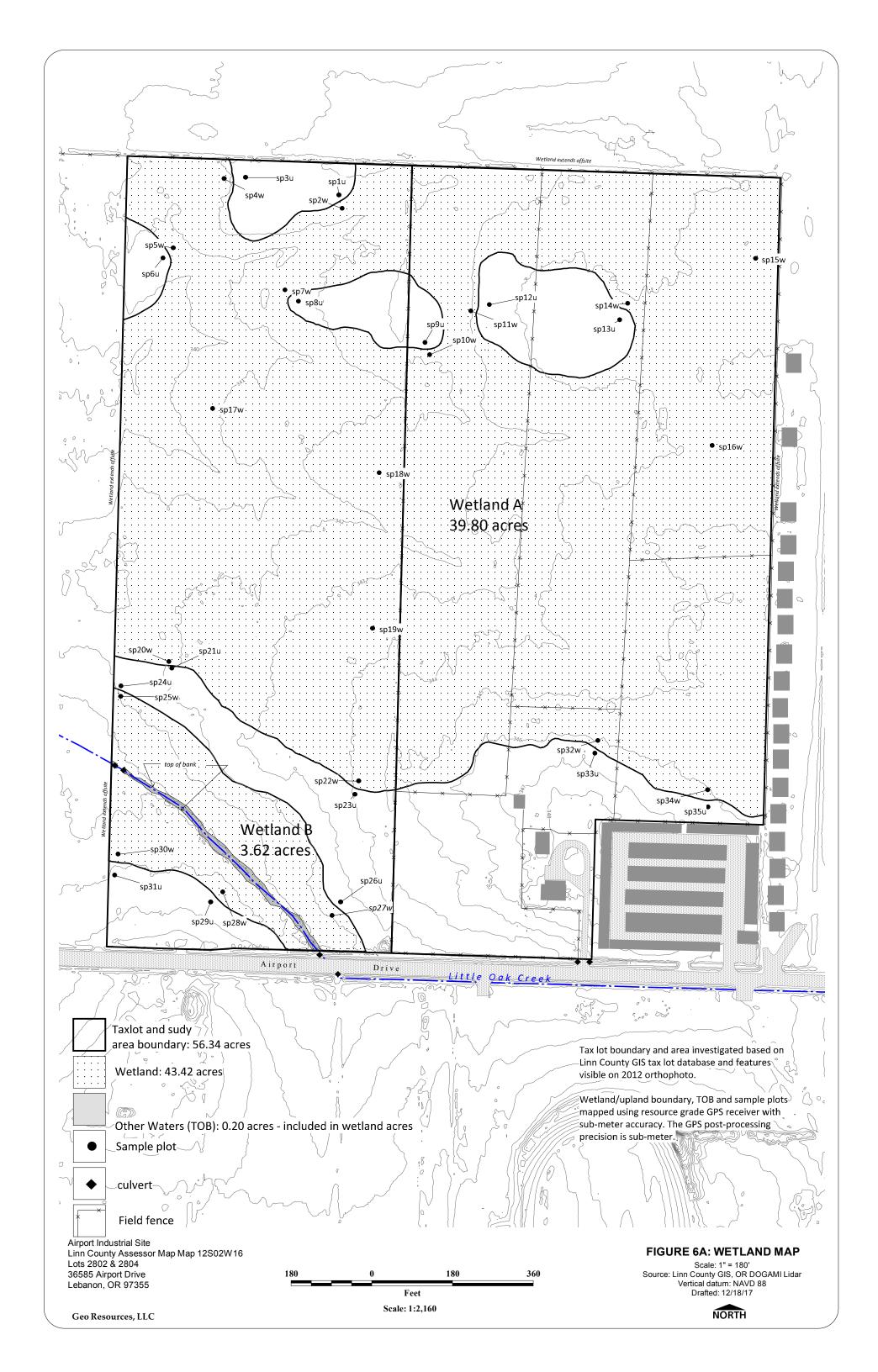
280 560 Feet

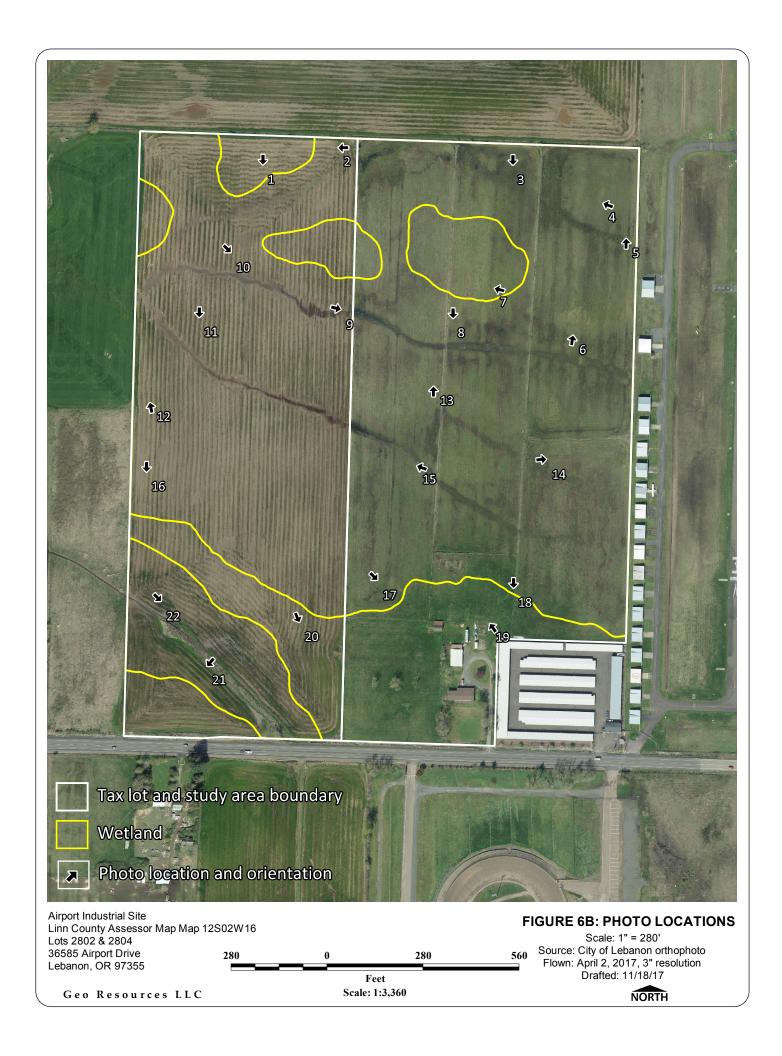
Scale: 1:3,360

Scale: 1" = 280' Source: City of Lebanon orthophoto Flown: April 2, 2017 with 3" resolution Drafted: 11/18/17









Project/Site:	Airport Industria	ıl		_City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-1	
Investigator(s):	A. Martin			_Section, Town	ship, Range:	16, T12S, R0	2W		
Landform (hillslope	e, terrace, etc.):	terrace Lo	cal reli	ef (concave, co	nvex, none):	none		_ Slope (%):	0%
Subregion (LRR):	LRR A		=	Lat: 44	.529142° N	Long:	-123.Y21° W	Datum:	HARN NAD83
Soil Map Unit N	Name: <u>Dayton</u>	silt loam			NWI class	sification:	upland		
Are Climatic / hydr	ologic conditions	on the site typical for this t	ime of y	/ear?	Yes:	x	No:	_	(If no explain in remarks)
Are Vegetation	Soil	or Hydrology		_Significantly d	isturbed?	Are"Normal C	Circumstances" present?	Yes	x_ No
Are Vegetation	Soil	or Hydrology		_Naturally prob	lematic?	(If needed, ex	cplain any answers in Rem	arks.)	
SUMMARY O	F FINDINGS	- Attach site map	shov	- ving sampl	ing point loc	ations, tr	ansects, important	features.	etc.
Hydrophytic Veget		Yes x					· •		
Hydric Soil Presen	t?	Yes	No	X	Is the Sample	d Area within			
Wetland Hydrology	y Present?	Yes	No	X			Yes	S	No <u>x</u>
Remarks:	Plot located in s	lightly crowned terrace at	north e	nd of TL 2802. I	Field cultivated fo	r annual rye			
<u>i</u>									
VEGETATION	N - Use scien	tific names of plan	ıts.	Abaaluta	Dominant	Indicator	Daminanaa Taat Wask	-h4:	
Tree Stratum	(Plot size:	30 ft dia)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sneet:	
1.							Number of Dominant Sp That are OBL, FACW, o		1 (A)
2.			-	-		-			
3. 4.			-				Total Number of Domina Species Across All Strat		1 (B)
					= Total Cover		Percent of Dominant Sp	ocios	
					- Total Cover		That are OBL, FACW, o		(A/B)
Sapling/Shrub Stra	atum (Plot size:		_)						
_			•				Prevalence Index work	sheet:	
•							Total % Cover of: OBL species		x 1 = Multiply by:
4.			•				FACW species FAC species		x 2 = x 3 =
J			•				FACU species		x 4 =
Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:		x 5 =(B)
Lolium multiflorum	_ `		-′	000/		F40	Describer to lador. D/A		· · · · · · · · · · · · · · · · · · ·
Lollum multiflorum 2.				80%	yes	FAC	Prevalence Index = B/A	=	
3. 4.			-		·		Hydrophytic Vegetatio	n Indicators:	
5.							Rapid Test	for Hydrophyt	_
6. 7.			-					Test is >50% Index is <3.0	
8. 9.									ns ⁽¹⁾ (Provide supporting separate sheet)
10			-					on-Vascular Pl	
11			-	-			Problemation	c Hydrophytic	Vegetation ⁽¹⁾ (Explain)
				80%	= Total Cover				il and wetland hydrology
Woody Vine Stratu	ım (Plot size:)				must be pre	esent, unless o	disturbed or problematic.
	_ `		•				Hardware bandla		
1. 2.			-				Hydrophytic Vegetation		
					= Total Cover		Present?	Yes	x No
				-	- i otal covel				
% Bare Ground in	Herb Stratum	20	<u>-</u>						
Remarks:									
US Army Corps of Engine	eers						Western Mou	untains, Valleys,	and Coast – Version 2.0

Sampling Point. SP-1	Sampling Point: SP-1
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SOIL								
Profile Des	scription: (Desc	cribe to the	depth needed to do	cument the	indicator of co	nfirm the abse	nce of indicators.)	
Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-9	10YR 3/2	100					sicl	
9-11	10YR 3/2	98%	10YR 4/4	2	С	M	sicl	
11-14 14-21	10YR 3/2 10YR 4/2	95% 95%	10YR 4/4 10YR 4/4	<u>5</u>	<u>C</u>	M M	sicl sicl	
	.01112	0070						
-								
(1)T 0								
(1) Type: C=	=Concentration,	D=Depletio	n, RM=Reduced Matr	ix, CS=Cove	red of Coated S	sand Grains. (2)	_ocation: PL=Pore Lining, M	=Matrix.
Hydric Soi	I Indicators: (A	pplicable to	o all LRRs, unless of	therwise not	ted.)		Indicators of Problematic	c Hydric Soils(3).
	Histosol (A1)				Sandy Redox	(\$5)		2 cm Muck (A10)
	Histic Epiped				Stripped Matri			Red Parent Material (TF2)
	Black Histic (Loamy Mucky			Other (Explain in Remarks)
	_ Hydrogen Su Depleted Belone		rfaco (A11)		(except MLRA Loamy Gleyed			
	Thick Dark Si				Depleted Matr		(3) indicators of hydroph	vtic vegetation
	Sandy Mucky	Mineral (S	1)		Redox Dark S	Surface (F6)	and wetland hydrology m	nust be present,
	_ Sandy Gleyer	d Matrix (S4	1)		Depleted Dark Redox Depres		unless disturbed or probl	lematic.
					Redux Deples	5510115 (1-0)		
Restrictive	layer (if prese	nt):						
Type:								
Type:	-							
Depth (in	ches):						Hydric Soil Present?	Yes No x
Remarks:								
HYDRO	LOGY							
Wetland H	ydrology Indica	ators:						
Primary Ind	licators (minimu	m of one red	quired: (check all that	apply)	_			Secondary Indicators (2 or more required)
	Surface Water T				1,2,4A, and	d Leaves (B9) (e	xcept MLRA	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B)
	Saturation (A				Salt Crust (B1			Drainage Patterns (B10)
	Water Marks				Aquatic Invert			Dry-Season Water Table (C2)
	Sediment De	posits (B2)			Hydrogen Sulf	fide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
	_ Drift Deposits	. ,					Living Roots (C3)	Geomorphic Position (D2)
	_ Algal Mat or (Reduced Iron (C		Shallow Aquitard (D3)
	_ Iron Deposits Surface Soil (eduction in Tille essed Plants (D		FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
	_		rial imagery (B7)			n in Remarks)	I) (LINIVA)	Frost-Heave Hummocks (D7)
	_		cave Surface (B8)			,		
Field Obse	ervations:							
Surface Wa	ater Present?	Yes	3	No	x	Depth (inches):		Wetland Hydrology Present?
						.,.,	-	_
Water Tabl	e Present?	Yes	s	No	х	Depth (inches):		Yes No x
Saturation I		Yes	<u> </u>	No	X	Depth (inches):		-
(includes ca	apillary fringe)							
Describe R	ecorded Data (s	tream gaug	e, monitoring well, ae	rial photos, p	revious inspecti	ions), if available	e:	
Remarks:								
1								

	Airport Industria	u		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanor	า		State:	OR		Sampling Point: SP-2
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W
Landform (terrace,	terrace, etc.):	terrace Local	relief (co	oncave, convex,	none):	concave	Slope (%):0%
Subregion (LRR):	LRR A		_	Lat:44.	529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	lame: Daytor	n silt loam			NWI class	sification:	upland
Are Climatic / hydro	ologic conditions	on the site typical for this	time of y	/ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly di	sturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation		or Hydrology				(If needed, e	explain any answers in Remarks.)
SUMMARY O							ransects, important features, etc.
Hydrophytic Vegeta		Yes x	No	gp			,,
Hydric Soil Present Wetland Hydrology	?	Yes X Yes X	No No		Is the Sample	d Area within	n a Wetland? Yes <u>x</u> No
Remarks:		edge of terrace on north e	_	2802			165 <u>A</u> NO
Remarks.	Plot located on	edge of terrace off flortiff e	ena or ri	L 2002.			
VEGETATION	I - Use scien	itific names of plar	its.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
			=				That are OBL, FACW, or FAC: 1 (A)
							Total Number of Dominant
			_				Species Across All Strata:1 (B)
					= Total Cover		Percent of Dominant Species
Sapling/Shrub Stra	tum (Plot size:		_)				That are OBL, FACW, or FAC: 100 (A/B)
							Prevalence Index worksheet:
			_				Total % Cover of: Multiply by:
			_				OBL species
			_				FAC species x 3 = FACU species x 4 =
Llaub Chrahum	(Diet size)	E # 4:0	,		= Total Cover		UPL species x 5 =
Herb Stratum	_ (Plot size:	5 ft dia	_)				Column Totals: (A) (B)
Lolium multiflorum			_	80%	yes	FAC	Prevalence Index = B/A =
			- -				Hydrophytic Vegetation Indicators:
			-				Rapid Test for Hydrophytic Vegetation
			=				Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
			=				Morphological Adaptations ⁽¹⁾ (Provide supporting data in Remarks or on a separate sheet)
			- -				Wetland Non-Vascular Plants (1)
			=	_			Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				80%	= Total Cover		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratu	m (Plot size:		_)				, ,
			_				Hydrophytic
			=				_
					= Total Cover		
% Bare Ground in I	Herb Stratum	20	_				
Remarks:							
Remarks:							

	cription. (Besc	inde to the	depth needed to doc	umont the	, indicator or co	iiiiiiii tiic absc	nice of indicators.,			
Depth	Matrix		Redox Features				_			
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks		
)-7	10YR 3/2	100					sicl			
7-11	10YR 3/2	95%	10YR 4/4	5	С	М	sicl			
11-20	10YR 4/2	95%	10YR 5/4	5	C	M	sicl	_		
							-			
	- 						-	- -		
							·			
(4)T C.		D-Danistia.	- DM-Dadwaad Matri	. 00-0	Ct C	(2)	Laastian, DL-Dans Lin	sing NA-NAshir		
(1)Type: C=	Concentration, i	D=Depletion	n, RM=Reduced Matrix	k, US=U0V	ered of Coated S	and Grains. (2)	Location: PL=Pore Lir	ing, w=watrix.		
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless oth	nerwise no	oted.)		Indicators of Prob	lematic Hydric Soils(3).		
	Histosol (A1)			Sandy Redox (S5)				2 cm Muck (A10)		
	Histic Epipedo Black Histic (A		-	Stripped Matrix (S6) Loamy Mucky Mineral (F1)			Red Parent Material (TF2) Other (Explain in Remarks)			
	Hydrogen Sul		_	(except MLRA 1)				Cuter (Explain in Remarks)		
х	Depleted Belo		face (A11)	Loamy Gleyed Matrix (F2)						
	Thick Dark Su	. ,	_	Depleted Matrix (F3)			(3) indicators of hydrophytic vegetation			
	Sandy Mucky			Х	Redox Dark S			ology must be present,		
	Sandy Gleyed	i Matrix (54)	Depleted Dark Surface (F7) Redox Depressions (F8)			unless disturbed of	or problematic.		
			_		_ Redux Depres	3310113 (1 0)				
Restrictive	layer (if preser	nt):								
_										
Type:										
Depth (inc	ches):						Hydric Soil Preser	nt? Yes x No		
P (····		
Remarks:										

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that	apply)	Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	Nox Depth (inches):	Yes x No
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_
Describe Recorded Data (stream gauge, monitoring well, aer	rial photos, previous inspections), if available:	
Remarks:		
IIS Army Corns of Engineers		Western Mountains Valleys and Coast - Version 2.0

Project/Site:	Airport Industri	ial		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
Applicant/Owner:	City of Lebano	n		State:	OR		Sampling Point:	SP-3	
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%
Subregion (LRR):	LRR A		-	Lat: 44	.529142° N	Long:	-123.933778° W	Datum:	HARN NAD83
Soil Map Unit N	Name: Clacka	amas variant silt loam			NWI class	sification:	upland		
Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of y	ear?	Yes:	Х	No:	_	(If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	sturbed?	Are"Normal	Circumstances" present?	Yes	x No
Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Rem	arks.)	
SUMMARY O	F FINDINGS	6 - Attach site map	show	ing sampl	ing point loc	ations, t	ransects, important	features,	etc.
Hydrophytic Vegeta		Yes x	No						
Hydric Soil Present Wetland Hydrology		Yes	No No	X	Is the Sample	d Area within		i	Nox
Remarks:	plot located on	west end of small terrace i	borderin	g north end of	TL 2802				
VEGETATION	I - Use scier	ntific names of plan	ıts.						
Tree Stratum	(Plot size:	30 ft dia)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
nec ottatum	(1 101 3120.	30 it dia	_'	70 GOVC1	орсыса:	Otatus	Number of Dominant Sp		4.40
1. 2.							That are OBL, FACW, or	FAC:	1 (A)
3. 4.			-				Total Number of Domina Species Across All Strata		1 (B)
			-		= Total Cover		Percent of Dominant Spe	ecies	
					. Total Gover		That are OBL, FACW, or		100 (A/B)
Sapling/Shrub Stra	itum (Plot size:	-	_)						
1. 2.			-				Prevalence Index work Total % Cover of:	sheet:	Multiply by:
3.			-				OBL species FACW species		x 1 =
5.			-				FAC species		x 3 =
					= Total Cover		FACU species UPL species		x 4 = x 5 =
Herb Stratum	_ (Plot size:	5 ft dia	_)				Column Totals:		(A)(B)
1. <u>Lolium multiflorum</u>			_	90%	yes	FAC	Prevalence Index = B/A	= -	
3.			-				_		
4 5			-				Hydrophytic Vegetation Rapid Test	n Indicators: for Hydrophyti	c Vegetation
6 7.			-		·			Test is >50% Index is <3.0	1)
8. 9.			-						s ⁽¹⁾ (Provide supporting eparate sheet)
10.			-				Wetland No	n-Vascular Pla	ants (1)
11			-				Problematio	: Hydrophytic \	/egetation ⁽¹⁾ (Explain)
				90%	= Total Cover		1 7	•	I and wetland hydrology isturbed or problematic.
Woody Vine Stratu	m (Plot size:		_)						•
1			_				Hydrophytic		
2			-		· ———		Vegetation Present?	Yes	x No
					= Total Cover				
% Bare Ground in	Herb Stratum	10	-						
Remarks:							1		
US Army Corps of Engine	ners						Moston Mar	ntains Vallous	and Coast – Version 2.0
Co runny Corps or Englite							vvesterii Mou	uiiio, valleys,	ana 0000 VCI3IUII 2.U

SOIL							Sampling Point:	SP-3				
	cription: (Desc	ribe to the	depth needed to doo	ument th	e indicator of co	nfirm the abse	nce of indicators.)					
Depth	Matrix		Redox Features									
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Re	emarks		
0.40	10)/17 0/0	400	- '									
0-10 10-14	10YR 3/2 10YR 3/2	100 98%	10YR 3/4	2		M	sicl sicl					
14-21	10YR 4/2	95%	10YR 5/4	5	_ c -	M	sicl					
								· 				
	- -				 -		-					
(4) T 0	0	D. Danielatia	- DM Dadarad Matri) I O i (O)	ti DI D Li-i	M. Matei				
(1)Type: C=	Concentration,	D=Depletioi	n, RM=Reduced Matri	x, CS=Cov	vered of Coated S	and Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix	·			
Hydric Soi	Indicators: (Ap	oplicable to	o all LRRs, unless otl	nerwise n	oted.)		Indicators of Proble	ematic Hydri	c Soils(3).			
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck	(A10)			
	Histic Epipedo		-		Stripped Matri	ix (S6)		Red Parent Material (TF2)				
	Black Histic (A	,	-		Loamy Mucky			Other (Exp	lain in Remarks)		
	Hydrogen Sul Depleted Belo		rface (A11)		_ ` '	(except MLRA 1) Loamy Gleyed Matrix (F2)						
	Thick Dark Su				Depleted Matrix (F3) (3) indicators of hy			drophytic veg	etation			
	Sandy Mucky				Redox Dark Surface (F6) and wetland hydrol							
	Sandy Gleyed	d Matrix (S4	·) _		Depleted Dark Surface (F7) unless disturbed or Redox Depressions (F8)			r problematic				
			-		Redox Depres	ssions (F8)						
Restrictive	layer (if preser	nt):										
Type:												
Depth (inc	ches):						Hydric Soil Present	? Ye:	s	No		х
Remarks:							l .					
HYDRO												
	drology Indica icators (minimur		quired: (check all that a	apply)				Secondary	Indicators (2 or	more requir	ed)	
Surface Water (A1)					Water Stained	d Leaves (B9) (e	except MLRA		Water Staine	ed Leaves (B	9) (MLF	₹A 1,2,

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that	apply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)		
Field Observations:				
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?		
Water Table Present? Yes	Nox Depth (inches):	Yes No x		
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_		
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspections), if available:	L		
Remarks:				
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0		

		al		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanor	n		State:	OR		Sampling Point: SP-4
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W
Landform (terrace,	terrace, etc.):	terrace L	ocal reli	ef (concave, cor	ivex, none):	concave	Slope (%): 0%
Subregion (LRR):	LRR A		_	Lat: 44	529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	ame: Clacka	amas variant silt loam			NWI class	sification:	upland
Are Climatic / hydro	logic conditions	on the site typical for this	time of y	ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly di	sturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation		or Hydrology		='		(If needed, e	explain any answers in Remarks.)
•	·			_			ransects, important features, etc.
Hydrophytic Vegeta		Yes x	No	9			
Hydric Soil Present Wetland Hydrology	?	Yes x Yes x	No No		Is the Sample	d Area withi	n a Wetland? Yes x No
Remarks:		n SP3 at north end of TL 2	_				
remane.	r lot paired with	ror o actionar cita or 12.2	002				
VECETATION	llee esien	etific names of plan	-4-				
VEGETATION	- USE SCIEI	ntific names of plan	its.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:	30 ft dia	_)	% Cover	Species?	Status	Number of Dominant Species
			_				That are OBL, FACW, or FAC: (A)
							Total Number of Dominant
			_				Species Across All Strata: 1 (B)
					= Total Cover		Percent of Dominant Species
Sapling/Shrub Strat	um (Plot size:		_)				That are OBL, FACW, or FAC: 100 (A/B)
							Prevalence Index worksheet:
			- -				Total % Cover of: Multiply by:
			<u> </u>				OBL species x 1 = FACW species x 2 =
			_				FAC species x 3 = FACU species x 4 =
Hards Observer	(Dist size)	F & J:-	,		= Total Cover		UPL species x 5 =
Herb Stratum	Plot size:	5 ft dia	_)				Column Totals: (A) (B)
Lolium multiflorum			_	90%	yes	F	Prevalence Index = B/A =
			_ _				
			_ _				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
			=				x Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
			<u> </u>				Morphological Adaptations (1) (Provide supporting
			<u>-</u>				data in Remarks or on a separate sheet) Wetland Non-Vascular Plants (1)
			_				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				90%	= Total Cover		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratur	m (Plot size:		_)				тиот ве ртезепт, интеза изпитией от ртовлетатис.
							Hydrophytic
			- -				Vegetation
					= Total Cover		Present? Yes x No
% Bare Ground in F	Herb Stratum	10					
			=				
Remarks:							

Sampling Point:	SP-4

SOIL							, ,			
Profile Des	cription: (Desci	ribe to the	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)			
Depth	Matrix		Redox Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks		
0-8	10YR 3/2	98	10YR 4/4	2	С	PL	sicl	2% OR		
8-11	10YR 3/2	95%	10YR 4/4	5		М	sicl			
11-20	10YR 4/2	90%	10YR 4/6	10	С	M	cl			
			·				· ———			
(1)Type: C=	Concentration, [D=Depletion	, RM=Reduced Matrix	, CS=Cove	ered of Coated S	and Grains. (2)	_ocation: PL=Pore Linin	g, M=Matrix.		
Hydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Problem	matic Hydric Soils(3).		
	Histosol (A1)				Sandy Redox	(\$5)		2 cm Muck (A10)		
	Histic Epipedo	n (A2)	_	Stripped Matrix (S6)				Red Parent Material (TF2)		
	Black Histic (A		-	Loamy Mucky Mineral (F1)		Other (Explain in Remarks)				
	Hydrogen Sulf		_	(except MLRA 1)						
Х	Depleted Belo		ace (A11)	Loamy Gleyed Matrix (F2)						
	Thick Dark Su		_	Depleted Matrix (F3)			(3) indicators of hydrophytic vegetation and wetland hydrology must be present,			
	Sandy Mucky Sandy Gleyed			x Redox Dark Surface (F6) Depleted Dark Surface (F7)			unless disturbed or problematic.			
	- Carlay Cicyca	Watrix (O+)	_		Redox Depres		dilicas distarbed of	problematic.		
B 4-1-41		Α.					Г			
Restrictive	layer (if presen	it):								
Type:										
Depth (inc	ches):						Hydric Soil Present?	Yes x No		
Remarks:										
HYDROL	LOGY									

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that a	apply)	Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Field Observations:				
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?		
Water Table Present? Yes	Nox Depth (inches):	Yes No		
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	-		
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspections), if available:			
Remarks:				
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0		

Project/Site:	Airport Industrial		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanon		State:	OR		Sampling Point: SP-5
Investigator(s):	A. Martin		Section, Town	ship, Range:	16, T12S, R	02W
Landform (hillslope	, terrace, etc.): terrace	Local relie	ef (concave, cor	nvex, none):	none	Slope (%): 0%
Subregion (LRR):	LRR A		Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	lame: Clackamas variant silt loam			NWI class	sification:	upland
Are Climatic / hydro	ologic conditions on the site typical for thi	s time of y	ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil or Hydrology		Significantly di	sturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation	Soil or Hydrology				(If needed, e	explain any answers in Remarks.)
SUMMARY O	· 		_			ransects, important features, etc.
Hydrophytic Vegeta Hydric Soil Present		No No		Is the Sample	d Area withii	n a Wetland?
Wetland Hydrology	Present? Yes x	No				Yes <u>x</u> No
Remarks:	Plot located adjacent to small terrace n	ear northw	est end of TL 2	802		
VEGETATION	- Use scientific names of pla	ants.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size: 30 ft dia)	% Cover	Species?	Status	
1		_				Number of Dominant Species That are OBL, FACW, or FAC:1 (A)
_						_ Total Number of Dominant
4.		_				Species Across All Strata: 1 (B)
				= Total Cover		Percent of Dominant Species
Sapling/Shrub Stra	tum (Plot size:)				That are OBL, FACW, or FAC: 100 (A/B)
1						Prevalence Index worksheet:
2.		_				Total % Cover of: Multiply by:
3. 4.		_				OBL species
5		_				FAC species
				= Total Cover		UPL species x 5 =
Herb Stratum	Plot size: 5 ft dia)				Column Totals:(A)(B)
Lolium multiflorum 2.		_	80%	yes	F	Prevalence Index = B/A =
3.		_				Understantis Versitation Indicators
5.		_				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
6. 7.		_				<u>x Dominance Test is >50%</u> Prevalence Index is <3.0 ⁽¹⁾
8. 9.		_				Morphological Adaptations (1) (Provide supporting data in Remarks or on a separate sheet)
10.		_				Wetland Non-Vascular Plants (1)
11		_				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
			80%	= Total Cover		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratu	m (Plot size:)				man so proson, amore distance of prosonation
1		_				Hydrophytic
2		_		· 		Vegetation
				= Total Cover		
% Bare Ground in I	Herb Stratum 20	_				
Remarks:						
US Army Corps of Engine	ers					Western Mountains, Valleys, and Coast - Version 2.0

							Sampling Point:	SP-5		
SOIL										
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)			
Depth	Matrix	0/	Redox Features	0/	- (1)			- .		
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks		
0-6	10YR 3/2	100					sicl			
6-12	10 TR 3/2	95%	10YR 4/6	5		М	sicl			
12-22	10YR 4/2	90%	10YR 5/4	10	_ <u>C</u>	M	cl	·		
12-22	10111 4/2	3070	1011(3/4	10		141				
			-					-		
					·					
							•			
(1) T			D14 D 1 114 11							
(1)Type: C=	Concentration,	D=Depletion	n, RM=Reduced Matrix	k, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.		
Hydric Soil	Indicators: (A	nnlicable to	o all LRRs, unless oth	norwico na	atod)		Indicators of Proble	ematic Hydric Soils(3).		
riyaric con	maicators. (A	ppiicabie it	o an Errico, ameso on	ici wise iie	icu.,		maicators or riobio	smalle riyune cons(c).		
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)		
	Histic Epipedon (A2)			Stripped Matrix (S6)			-	Red Parent Material (TF2)		
	Black Histic (A	A3)	<u> </u>		Loamy Mucky	/ Mineral (F1)		Other (Explain in Remarks)		
	Hydrogen Sul		_	(except MLRA 1)						
Х	Depleted Belo			Loamy Gleyed Matrix (F2)						
	Thick Dark Su		_	Depleted Matrix (F3)			(3) indicators of hydrophytic vegetation			
	Sandy Mucky			x Redox Dark Surface (F6)			and wetland hydrology must be present,			
	Sandy Gleyed	d Matrix (54	-	Depleted Dark Surface (F7) Redox Depressions (F8)			unless disturbed or problematic.			
			-		_ Redux Depres	SSIUTIS (FO)				
Restrictive	layer (if preser	nt):								
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,								
Type:										
Depth (inc	ches):						Hydric Soil Present	t? Yes <u>x</u>	No	
Remarks:										
Remarks.										
/ DDQ1	001									
HYDROI										
	drology Indica		auirad: (abaak all that	nnl.()				Connecting Indicators (2 cr	autrod)	
rimary ind	icators (minimur	iii oi one red	quired: (check all that a	ippiy)				Secondary Indicators (2 or more re	<u>quir</u> ea)	
1										

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that ap	pply)	Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	Nox Depth (inches):	Yesx No
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_
Describe Recorded Data (stream gauge, monitoring well, aeria	I photos, previous inspections), if available:	
Remarks:		
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-6
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	802W
Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	concave	Slope (%): 0%
Subregion (LRR):	LRR A			Lat: 44.	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	lame: Clacka	mas variant silt loam	_		NWI class	sification:	upland
·		on the site typical for this t	ime of v	ear?	•	х	<u>.</u>
Are Vegetation	_	or Hydrology			_		Circumstances" present? Yes x No
							· — —
Are Vegetation SUMMARY OI		or Hydrology - Attach site map		_			explain any answers in Remarks.) iransects, important features, etc.
Hydrophytic Vegeta		Yes x					
Hydric Soil Present Wetland Hydrology		Yes	No No	X	Is the Sample	d Area withi	in a Wetland? Yes Nox
Remarks:	Plot in slightly h	igher terrace near northwo	est corn	er of TL 2802			
VECETATION	l llee seien	tific names of plar	· to				
VEGETATION	i - USE SCIEII	unc names or plar	ııə.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
1			_				That are OBL, FACW, or FAC:1 (A)
0			_		. ——		Total Number of Dominant
4.			-				Species Across All Strata: 1 (B)
					= Total Cover		Percent of Dominant Species
Sapling/Shrub Strat	tum (Plot size:)				That are OBL, FACW, or FAC: 100 (A/B)
- Supining/Ornido Sudi	<u>ta</u> (1 101 0120.		_'				
1. 2.			-				Prevalence Index worksheet: Total % Cover of: Multiply by:
3.			- -				OBL species x 1 =
5.			<u>-</u>				FACW species
					= Total Cover		FACU species
Herb Stratum	(Plot size:	5 ft dia	_)				Column Totals: (A) (B)
1. Lolium multiflorum			_	90%	yes	FAC	Prevalence Index = B/A =
2.			-				
4.			-				Hydrophytic Vegetation Indicators:
5. 6.			_				Rapid Test for Hydrophytic Vegetation x Dominance Test is >50%
7. 8.			-				Prevalence Index is <3.0 ⁽¹⁾ Morphological Adaptations ⁽¹⁾ (Provide supporting
9.			- -				data in Remarks or on a separate sheet)
10. 11.			-				Wetland Non-Vascular Plants (1) Problematic Hydrophytic Vegetation (1) (Explain)
			-	000/	T.110		
				90%	= Total Cover		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratur	m (Plot size:		_)				
1			_				Hydrophytic
2			-				Vegetation Present? Yesx No
					= Total Cover		
% Bare Ground in I	Herb Stratum	10	_				
Remarks:		-					
INGHIDINS.							
US Army Corps of Enginee	ers						Western Mountains, Valleys, and Coast – Version 2.0

Sampling Point:	SP-6
Sampling Follit.	3F-0

Western Mountains, Valleys and Coast - Version 2.0

SOIL

US Army Corps of Engineers

	•	. Tibe to the (depth needed to doc	ument the	mulcator of Co	ommin the abser	nce or maicators.)				
Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type (1)	Loc (2)	Texture	Da	marks		
, ,	· · · · · · · · · · · · · · · · · · ·		(110151)	70	1 3 pc (1)	LOU (2)	ICALUIC		a. No		
0-9	10YR 3/2	100	10/0				sicl	-			
9-14 14-20	10YR 3/2 10YR 4/2	94% 90%	10YR 4/4 10YR 4/6	6 10	C	M M	sicl cl				
14-20	1011(4/2	3070	1011(4/0	10			GI				
							-				
	· ·						-	-			
(1)Type: C=	Concentration	D=Depletion	RM=Reduced Matrix	CS=Cove	red of Coated S	Sand Grains (2)	_ocation: PL=Pore Lini	ng M=Matrix			
			all LRRs, unless oth			Odina Oramo. (2)2		ematic Hydric Soils(3).			
	Histosol (A1)				Sandy Redox	x (S5)		2 cm Muck (A10)			
	Histic Epipedo				Stripped Mat	rix (S6)		Red Parent Material (TF2)			
	Black Histic (A Hydrogen Sul		=		Loamy Muck (except MLR	y Mineral (F1)		Other (Explain in Remarks)			
	Depleted Belo	, ,	face (A11)			ed Matrix (F2)					
	Thick Dark Su				Depleted Ma		. ,	drophytic vegetation			
	Sandy Mucky Sandy Gleyed	,	, <u> </u>		Redox Dark	Surface (F6) rk Surface (F7)	and wetland hydrol unless disturbed or	ogy must be present,			
	- Canay Cicyco	a matrix (O1)	'		Redox Depre		difficos diotarbod of	. p. 55.0			
Restrictive	layer (if preser	nt):									
Type:											
Depth (inc	:hes):					Hydric Soil Present? Yes					
Remarks:											
HYDROL	_OGY										
	rdrology Indica cators (minimur		uired: (check all that a	ipply)	-			Secondary Indicators (2 or	more required)		
	Surface Wate	r (A1)			Water Staine	ed Leaves (B9) (e	except MLRA	Water Stained	d Leaves (B9) (MLRA 1,2,		
	High Water Ta	, ,			1,2,4A, and			4A, and 4B) Drainage Patterns (B10)			
	Saturation (A: Water Marks		_		Salt Crust (B	11) rtebrates (B13)					
	Sediment Dep	` '	- _			ulfide Odor (C1)		Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)			
	Drift Deposits						Living Roots (C3)	Geomorphic F			
	Algal Mat or C Iron Deposits		-			Reduced Iron (Ca Reduction in Tille		Shallow Aquit FAC-Neutral			
	Surface Soil C	Cracks (B6)	<u> </u>		Stunted or St	runted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)					
	-		al imagery (B7) ave Surface (B8)		Other (Expla	ain in Remarks)		Frost-Heave I	Hummocks (D7)		
Field Obse	rvations:										
Surface Wa	ter Present?	Yes		No	x	Depth (inches):		Wetland Hydrology Prese	nt?		
Water Table	Present?	Yes		No	x	Depth (inches):		Yes	Nox		
Saturation F (includes ca	Present? pillary fringe)	Yes		No	x	Depth (inches):					
Describe Re	ecorded Data (s	tream gauge	e, monitoring well, aeri	al photos, p	revious inspec	tions), if available	3 :				
Remarks:											

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-7	
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	concave		Slope (%):0%	
Subregion (LRR):	LRR A		_	Lat:44	.529142° N	Long:	-123.933778° W	Datum: HARN NAD83	
Soil Map Unit I	Name: Clacka	mas variant silt loam			NWI class	sification:	upland		
Are Climatic / hydr	ologic conditions	on the site typical for this t	ime of y	rear?	Yes:	х	No:	(If no explain in remarks	s)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes <u>x</u> No	
Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Remar	rks.)	
SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampl	ing point loc	ations, t	ransects, important f	eatures, etc.	
Hydrophytic Veget	ation Present?	Yes x	No						
Hydric Soil Presen Wetland Hydrology		Yes x Yes x	No No		Is the Sample	d Area withi		x No	
Remarks:	Plot located in	wetland adjacent to terrace	that str	raddles fencelin	e between two pa	arcels	-		
VEGETATION	N - Use scier	itific names of plan	ıts						
		ano namos or plan		Absolute	Dominant	Indicator	Dominance Test Worksh	neet:	
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Spec	cies	
1			-				_ That are OBL, FACW, or F	FAC: <u>1</u> (A)	
			-				Total Number of Dominan		
4.			-				_ Species Across All Strata:	1(B)	
					= Total Cover		Percent of Dominant Spec That are OBL, FACW, or F		3)
Sapling/Shrub Stra	atum (Plot size:)					·	
1							Prevalence Index works		
2. 3.			-				Total % Cover of: OBL species	x 1 =	
4. 5.							FACW species FAC species	x 2 = x 3 =	
J			-				FACU species	x 4 =	
Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:	x 5 =(A)(B)	
Lolium multiflorum				85%	yes	F	Prevalence Index = B/A =		
2.							_		
4.							Hydrophytic Vegetation		
5. 6.			-				Rapid Test fo	or Hydrophytic Vegetation Fest is >50%	
7. 8.			-					ndex is <3.0 ⁽¹⁾ al Adaptations ⁽¹⁾ (Provide supporting	
9.							data in Rema	arks or on a separate sheet)	
10. 11.			-					-Vascular Plants ⁽¹⁾ Hydrophytic Vegetation ⁽¹⁾ (Explain)	
				85%	= Total Cover		(1) Indicators	of hydric soil and wetland hydrology	
Woody Vine Stratu	ım (Plot size:		\		='			ent, unless disturbed or problematic.	
	ili (Flot size.		.,						
2.			-				Hydrophytic Vegetation		
					= Total Cover		Present?	Yes <u>x</u> No	
0/ Parc Correct	Llouis Christian	45							
% Bare Ground in	nerd Stratum	15	•						
Remarks:									
US Army Corps of Engine	eers						Western Mount	tains, Valleys, and Coast – Version 2.0	

SOIL							Sampling Point:	SP-7		
	cription: (Desc	ribe to the	depth needed to doo	cument the	e indicator of co	nfirm the abse	nce of indicators.)			
Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type (1)	Loc (2)	- Texture	Remarks		
0.5	40VD 0/0	400					-!-!			
0-5 5-11	10YR 3/2 10YR 3/2	100 95%	10YR 4/4	5		M	sicl sicl	2% OR		
11-20	10YR 3/2	90%	10YR 4/4	10	C	М	sicl			
			<u> </u>							
							-			
								_		
(1)Type: C=	Concentration, I	D=Depletio	n, RM=Reduced Matri	x, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lin	ing, M=Matrix.		
Hydric Soil	Indicators: (Ap	pplicable to	o all LRRs, unless ot	herwise no	oted.)		Indicators of Probl	ematic Hydric Soils(3).		
	Histosol (A1)				Sandy Redox	(95)		2 cm Muck (A10)		
	Histic Epipedo	on (A2)	-		Stripped Matr	. ,		Red Parent Material (TF2)		
	Black Histic (A		-		Loamy Mucky		Other (Explain in Remarks)			
	Hydrogen Sulf Depleted Belo		rface (A11)		_ (except MLRA Loamy Gleyer					
	Thick Dark Su				Depleted Mat		(3) indicators of hy	ydrophytic vegetation		
	Sandy Mucky			Х	Redox Dark S	Surface (F6) k Surface (F7)	and wetland hydrology must be present,			
	Sandy Gleyed	ı ıvlatı ix (54	·) -		Redox Depres		unless disturbed or problematic.			
D. deleter		-4)-			<u> </u>		ı			
Restrictive	layer (if preser	nt):								
Type:										
Depth (inc	ches):						Hydric Soil Present? Yesx No			
Remarks:										
LIVDDOI	oov									
HYDROI Wetland Hy	_OGY /drology Indica	itors:								
			quired: (check all that a	apply)	_			Secondary Indicators (2 or more required)		
	Surface Water	r (A1)			Water Stained	d Leaves (B9) (e	avcent MI DA	Water Stained Leaves (B9) (MLRA 1,2,		
	High Water Ta	, ,	-			a Leaves (D9) (6		Valer Stallled Leaves (B9) (MLRA 1,2,		

Wetland Hydrology Indicators: Primary Indicators (minimum of c		t annly)			Secondary	Indicators (2 or r	more required)
Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible ((B2) (B4)	Wa 1 Sa Aq Hy X Ox Prr Re Stu	,2,4A, all Crust (uatic Involved Grogen Stidized Resence concept iron unted or	*	x x	Water Stained 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Mo	d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) iible on Aerial Imagery (C9) Position (D2) ard (D3)
Field Observations:							
Surface Water Present?	Yes	No	х	Depth (inches):	Wetland Hy	drology Prese	nt?
Water Table Present?	Yes	No	х	Depth (inches):	Yes	xx	No
Saturation Present? (includes capillary fringe)	Yes	No	Х	Depth (inches):	_		
Describe Recorded Data (stream	gauge, monitoring well, a	erial photos, previo	us inspe	ections), if available:			
Remarks:							
US Army Corps of Engineers					Western Moi	ıntains. Vallevs an	d Coast - Version 2.0

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-8
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	.02W
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	none	Slope (%): 0%
Subregion (LRR):	LRR A		_	Lat:44.	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	Name: Dayton	ı silt loam			NWI class	sification:	upland
Are Climatic / hydro	ologic conditions	on the site typical for this t	time of y	ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation		or Hydrology				(If needed, e	explain any answers in Remarks.)
•				_			ransects, important features, etc.
Hydrophytic Vegeta		Yes x	No		Is the Sample	d Aron within	n a Watland?
Hydric Soil Present Wetland Hydrology		Yes	No No	<u>x</u> <u>x</u>	is the Sample	d Area within	Yes No x
Remarks:	Plot located on	small terrace that straddle	es fencel	line between tw	o parcels.		
VEGETATION	I - Use scien	tific names of plar	nts.				
		•	,	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
1 2.			_				That are OBL, FACW, or FAC: 1 (A)
0							Total Number of Dominant
4			-				Species Across All Strata: 1 (B)
					= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stra	tum (Plot size:		_)				
1			_				Prevalence Index worksheet:
2.			-				
4.			- -				FACW species x 2 =
5			-		. ———		FAC species
Hards Otractions	(Dist size)	F. 4	,		= Total Cover		UPL species x 5 =
Herb Stratum	_ (Plot size:	5 ft dia	_)				Column Totals:(A)(B)
Lolium multiflorum 2.			_	90%	yes	FAC	Prevalence Index = B/A =
3.			-				- Hudraubutia Vanatatian Indicatava.
5.			- -				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
6. 7.			_		. 		xDominance Test is >50%Prevalence Index is <3.0 ⁽¹⁾
8.			- -				Morphological Adaptations (1) (Provide supporting
9. 10.			-			-	data in Remarks or on a separate sheet) Wetland Non-Vascular Plants (1)
11			- -				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				90%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
							must be present, unless disturbed or problematic.
Woody Vine Stratu	m (Plot size:		_)				
1. 2			_				Hydrophytic Vegetation
<u> </u>			=		· ———		Present? Yes x No
					= Total Cover		
% Bare Ground in I	Herb Stratum	10	-				
Remarks:							_1
US Army Corps of Engine	ers						Western Mountains, Valleys, and Coast - Version 2.0

Sampling Point:	SP-8
oumpining i oniti	5. 5

SOIL											
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks		
0-10	10YR 3/2	100					sicl				
10-20	10YR 3/2	94%	10YR 4/3	6	С С	M	sicl				
	- 										
					-	-					
(1)Type: C=	Concentration.	D=Depletion	n. RM=Reduced Matrix	x. CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lining	a. M=Matrix.			
(.).)			,,	,,		(=)		,, 			
Hydric Soil	Indicators: (A	pplicable to	all LRRs, unless oth	nerwise no	oted.)		Indicators of Problem	natic Hydric Soils(3).			
	Histosol (A1)				_ Sandy Redox			2 cm Muck (A10)			
	Histic Epipedon (A2) Black Histic (A3)			Stripped Matrix (S6) Loamy Mucky Mineral (F1)				Red Parent Material (TF2)			
	Hydrogen Sul		-		(except MLR			Other (Explain in Remarks)			
	Depleted Belo		face (A11)		Loamy Gleye						
	Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation										
	Sandy Mucky				Redox Dark S			nd hydrology must be present, turbed or problematic.			
	Sandy Gleyed	d Matrix (S4)	·)		Depleted Dar	k Surface (F7)	unless disturbed or p				
	_		-		Redox Depre	ssions (F8)					
Restrictive	layer (if preser	nt)·					T				
110011101110	layer (ii preser	,.									
Type:											
Depth (inc	ches):						Hydric Soil Present?	Yes	^	No	Х
Remarks:											
ixemaiks.											
	001										

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all tha	it apply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)		
Field Observations:				
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?		
Water Table Present? Yes	Nox Depth (inches):	Yes No x		
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_		
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspections), if available:			
Remarks:				
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0		

Project/Site:	Airport Industrial	l		City/County:	Lebanon/Linn		Sampling Date : 8/14/2017
Applicant/Owner:	Airport Industrial	l		State:	OR		Sampling Point: SP-9
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	202W
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	f (concave, co	nvex, none):	none	Slope (%): 0%
Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	Name: Clackar	nas variant silt loam			NWI class	sification:	upland
Are Climatic / hydr	ologic conditions of	on the site typical for this t	ime of y	ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present? Yes x No No
Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Remarks.)
SUMMARY O						cations. t	transects, important features, etc.
Hydrophytic Veget		Yes x	No				· · ·
Hydric Soil Presen Wetland Hydrology	t?	Yes Yes	No No	X	Is the Sample	d Area withi	in a Wetland? Yes No x
Remarks:		ar north end of TL 2804 in	_				
romano.	Tiot located field	21 HOTH ONG OF TE 2004 III	oman a	piana terrace.			
VECETATION	l lles seient	lific names of plan					
VEGETATION	N - USE SCIEIT	tific names of plan	ııs.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
1			_				That are OBL, FACW, or FAC: 1 (A)
			_				Total Number of Dominant
4			-				Species Across All Strata: 1 (B)
					= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stra	atum (Plot size:)				That are OBL, FACW, or FAC: 100 (A/B)
1.							Prevalence Index worksheet:
2.			-		·		Total % Cover of: Multiply by:
4.			- -			-	FACW species x 2 =
5			-		·		FAC species x 3 = FACU species x 4 =
Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL speciesx 5 = Column Totals: (A) (B)
		O It did	_'	750/		540	
 Agrostis capillaris Anthoxanthum odd 	oratum		<u>-</u>	75% 15	yes	FAC FACU	Prevalence Index = B/A =
Holcus lanatus A.			-	10		FAC	Hydrophytic Vegetation Indicators:
5.			-				Rapid Test for Hydrophytic Vegetation
6. 7.			-		·		x Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
9.			-				Morphological Adaptations (1) (Provide supporting data in Remarks or on a separate sheet)
10			-				Wetland Non-Vascular Plants (1) Problematic Hydrophytic Vegetation (1) (Explain)
			-				
				100%	= Total Cover		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratu	ım (Plot size:		_)				
1			_				Hydrophytic
2			-		-		Vegetation Present? Yesx No
					= Total Cover		
% Bare Ground in	Herb Stratum		_				
Remarks:							1
US Army Corps of Engine	eers						Western Mountains, Valleys, and Coast – Version 2.0

SOIL											
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Rem	narks		
0-9	10YR 3/2	99	10YR 4/4	1	С	PL	sicl	1% OR			
9-14	10YR 3/2	95%	10YR 4/4	5	_ c	M	sicl	1 /0 UK			
14-21	10YR 4/2	95%	10YR 5/4	5	_ c	M	cl				
	· — -		- -		_ .						
			<u> </u>				<u> </u>				
			- 				-				
			 				 				
(1)Type: C=	Concentration, I	D=Depletion	n, RM=Reduced Matrix	, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lining, N	л=Matrix.			
				_							
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Problemat	ic Hydric Soils(3).			
	Histosol (A1)				Sandy Redox	(S5)	2 0	m Muck (A10)			
	Histic Epipedo	on (A2)	_	Stripped Matrix (S6)			Red Parent Material (TF2)				
	Black Histic (A	A3)	_	Loamy Mucky Mineral (F1)			Other (Explain in Remarks)				
	Hydrogen Sul		_		(except MLRA						
	Depleted Belo				Loamy Gleye						
	Thick Dark Su			Depleted Matrix (F3)			(3) indicators of hydrophytic vegetation and wetland hydrology must be present,				
	Sandy Mucky Sandy Gleyed			Redox Dark Surface (F6) Depleted Dark Surface (F7)			unless disturbed or problematic.				
	_ Garidy Gleyed	I Wallix (04	,		Redox Depre		unless disturbed or prof	olematic.			
			-		_ Redex Bepre	0010110 (1 0)					
Restrictive	layer (if preser	nt):									
Type:											
Depth (inc	shee).						Hydric Soil Present?	Yes	No	х	
Dopui (inc							Tryunc con r resent:		140		
Remarks:											
	·				- 				<u>-</u>		
	001										
HYDROL	LUGY										

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that a	apply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)	
Field Observations:			
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?	
Water Table Present? Yes	Nox Depth (inches):	Yes No x	
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_	
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspections), if available:		
Remarks:			
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Project/Site:	Airport Industri	al		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanor	n		State:	OR		Sampling Point: SP-10
Investigator(s):	A. Martin			Section, Town	iship, Range:	16, T12S, R	202W
Landform (terrace,	terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	concave	Slope (%): 0%
Subregion (LRR):	LRR A		-	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	lame: Clacka	amas variant silt loam			NWI class	ification:	upland
Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of y	ear?	Yes:_	х	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present? Yes x No No
Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Remarks.)
SUMMARY O	F FINDINGS	- Attach site map	show	ving sampl	ing point loc	ations, t	ransects, important features, etc.
Hydrophytic Vegeta		Yes x	No				
Hydric Soil Present Wetland Hydrology		Yes x Yes x	No No		Is the Sample	d Area withi	in a Wetland? YesxNo
Remarks:	Plot located in	wetland adjacent to small t	errace o	on north end of	TL 2804		
VEGETATION	I - Use scier	ntific names of plan	ıts.				
			`	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:	30 ft dia	_)	% Cover	Species?	Status	Number of Dominant Species
1 2.			-				That are OBL, FACW, or FAC: (A)
3. 4.			- -				Total Number of Dominant
4.			-				Species Across All Strata: 1 (B)
					= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stra	tum (Plot size:		_)				
1			_				Prevalence Index worksheet:
2. 3.			-				Total % Cover of: Multiply by:
4			-				FACW species
·			-				FACU species x 4 =
Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species
Agrostis capillaris				75%	yes	FAC	Prevalence Index = B/A =
Anthoxanthum odo Hypochaeris radica			-	15 10		FACU FACU	
4.	na		-	10		TACO	Hydrophytic Vegetation Indicators:
5. 6.			-				Rapid Test for Hydrophytic Vegetation x Dominance Test is >50%
7. 8.			-				Prevalence Index is <3.0 ⁽¹⁾ Morphological Adaptations ⁽¹⁾ (Provide supporting
9.			-				data in Remarks or on a separate sheet)
10 11			-				Wetland Non-Vascular Plants (1) Problematic Hydrophytic Vegetation (1) (Explain)
				100%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
Mandy Vina Ctratu	m (Diet eine)		,		-		must be present, unless disturbed or problematic.
Woody Vine Stratu	iii (Fiot size.		_/				
1			-				Hydrophytic Vegetation
-			-		= Total Cover		Present? Yes x No No
W B					- 10(4) 00761		
% Bare Ground in I	Herb Stratum		<u>-</u>				
Remarks:							
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Sampling Point: SP	-10
Sampling Funt. SF	-10

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SOIL

US Army Corps of Engineers

Profile Des	cription: (Desc	ribe to the	depth needed to doo	ument the i	ndicator of co	nfirm the abse	nce of indicators.)	
Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-7	10YR 3/2	100					sicl	
7-12	10YR 3/2	95%	10YR 4/4	5	С	M	sicl	
12-20	10YR 4/2	94%	10YR 4/4	6	C	M	sicl	-
	- 							
	- ——— ·							-
			· ·				-	
(4) T O	0	D. Danielation	DM Dadarad Matri) 1 O i (O)	tion DL Donallini	an M. Makin
(1)Type: C=	Concentration,	D=Depletior	n, RM=Reduced Matri	x, CS=Cover	red of Coated S	and Grains. (2)	_ocation: PL=Pore Lini	ng, M=Matrix.
Hydric Soil	Indicators: (A	pplicable to	all LRRs, unless oth	herwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
	Histic Epiped		- -		Stripped Matr			Red Parent Material (TF2)
	Black Histic (/	,	<u>-</u>		Loamy Mucky			Other (Explain in Remarks)
Х	Hydrogen Sul Depleted Belo		face (A11)		(except MLRA Loamy Gleyer			
	Thick Dark Su				Depleted Mat		(3) indicators of hyd	drophytic vegetation
	Sandy Mucky			Х	Redox Dark S		,	ogy must be present,
	Sandy Gleyed	d Matrix (S4)	·		Depleted Dari	k Surface (F7)	unless disturbed or	problematic.
			-		годох Борго	0010110 (1 0)		
Restrictive	layer (if prese	nt):						
Type:								
Depth (inc	ches):		<u> </u>				Hydric Soil Present	? Yes x No
Remarks:			-				.,	
HYDROI	LOGY /drology Indica	toro.						
			uired: (check all that a	apply)				Secondary Indicators (2 or more required)
	Surface Wate High Water Ta		-		Water Stained 1,2,4A, and	d Leaves (B9) (e 4R)	except MLRA	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B)
	Saturation (A		-		Salt Crust (B1	,		Drainage Patterns (B10)
	Water Marks		-			tebrates (B13)		Dry-Season Water Table (C2)
	Sediment Dep Drift Deposits		-			fide Odor (C1)	Living Roots (C3)	x Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
	Algal Mat or 0		-			Reduced Iron (C		Shallow Aquitard (D3)
	Iron Deposits		-			eduction in Tille	` '	FAC-Neutral Test (D5)
	Surface Soil (al imagery (B7)			ressed Plants (D in in Remarks)	01) (LRR A)	Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
			ave Surface (B8)		Other (Explai	iii iii iteiliaiks)		Trost-rieave Humimocks (D1)
First Observ								_
Field Obse	rvations:							
Surface Wa	ter Present?	Yes	·	No	x	Depth (inches):		Wetland Hydrology Present?
Water Table	e Present?	Yes	·	No	x	Depth (inches):		Yesx No
Saturation F (includes ca	Present? apillary fringe)	Yes		No	x	Depth (inches):		
Describe Ro	ecorded Data (s	tream gauge	e, monitoring well, aer	ial photos, p	revious inspect	ions), if available	9:	1
Remarks:								

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-11
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W	
Landform (terrace,	terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	none		Slope (%):
Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W	Datum: OR State Plane N HARN NAD 83
Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	sification:	upland	
Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of y	ear?	Yes:	Х	No:	(If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal	Circumstances" present?	Yes x No
Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Remai	rks.)
SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampl	ing point loc	ations, t	ransects, important f	eatures, etc.
Hydrophytic Vegeta		Yes x	No					
Hydric Soil Present Wetland Hydrology		Yes x Yes x	No No		Is the Sampleo	Area within		x No
Remarks:	Plot located on	west side of small upland	terrace	at north end of	TL2804.			
VEGETATION	I - Use scien	tific names of plan	ıts.					
Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksh	leet:
1	,		-'		·		Number of Dominant Spec That are OBL, FACW, or I	
							- -	
3. 4.							Total Number of Dominan Species Across All Strata:	
					= Total Cover		Percent of Dominant Spec	cies
Sapling/Shrub Stra	tum (Plot size:		\		-		That are OBL, FACW, or I	
Sapinig/Siliub Stia	tum (Flot size.		_'					
1. 2.							Prevalence Index works Total % Cover of:	heet: Multiply by:
3. 4.			-				OBL species FACW species	x 1 = x 2 =
5.			-				FAC species FACU species	x 3 =
					= Total Cover		UPL species	x 5 =
Herb Stratum	_ (Plot size:	5 ft dia	_)				Column Totals:	(A)(B)
Agrostis capillaris Schedonourus arui	ndinaceus		-	70% 30	yes	FAC FAC	Prevalence Index = B/A =	
3.			•				Hydrophytic Vegetation	Indicatore
5.							Rapid Test fo	or Hydrophytic Vegetation
6 7					·			ndex is <3.0 ⁽¹⁾
8. 9.			-					al Adaptations (1) (Provide supporting arks or on a separate sheet)
10. 11.								-Vascular Plants ⁽¹⁾ Hydrophytic Vegetation ⁽¹⁾ (Explain)
··· <u></u>			-					
				100%	= Total Cover		, ,	of hydric soil and wetland hydrology ent, unless disturbed or problematic.
Woody Vine Stratu	m (Plot size:		_)					
1. 2.			-		·		Hydrophytic Vegetation	
			-		- Total O		Present?	Yes <u>x</u> No
					= Total Cover			
% Bare Ground in I	Herb Stratum		-					
Remarks:								
US Army Corps of Engine	ers						Western Mount	tains, Valleys, and Coast – Version 2.0

							Sampling Point:	SP-11		
SOIL										
Profile Des	scription: (Desc	ribe to the	depth needed to do	cument the	indicator of co	nfirm the abse	ence of indicators.)			
Depth	Matrix		Redox Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)		Remarks		
(Inches)						LOC (2)		remano		
0-6	10YR 3/2	100					sicl			
6-11	10YR 3/2	95%	10YR 4/6	5		М	sicl			
11-19	10YR 3/2	90%	10YR 4/6	10		М	sicl			
			<u> </u>				-	_		
			_, (
										
							_			
(4)T C-	-0	D-Danistia.	- DM-Dadwaad Mata	CC-C	d of Cooked C	Sand Cosine (O	N aaatian, DI -Dana Lin	nina NA-NAntais		
(1)Type. C-	-Concentration,	D-Depletioi	i, Rivi-Reduced iviali	IX, US-U0V	ered or Coaled S	and Grains. (2))Location: PL=Pore Lin	iirig, ivi–iviatrix.		
Hydric Soi	I Indicators: (A	nnlicable tr	o all LRRs, unless ot	thorwise no	oted)		Indicators of Probl	lematic Hydric Soils(3).		
nyano con	r maioatoro: (A)	ppiloubio to	, an Ertito, amood of		rtou.,		maioatoro or riobi	iomatio riyano cono(o).		
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)		
	Histic Epipedo	on (A2)	•		Stripped Matri	ix (S6)		Red Parent Material (TF2)		
	Black Histic (A	A3)	•		Loamy Mucky	/ Mineral (F1)		Other (Explain in Remarks)		
	Hydrogen Sul		•		(except MLRA					
	_ Depleted Belo				Loamy Gleyed					
	Thick Dark Su				Depleted Matr		(3) indicators of hydrophytic vegetation			
Sandy Mucky Mineral (S1)		Х	_ Redox Dark S		and wetland hydrology must be present,					
	_ Sandy Gleyed	Matrix (S4)	Depleted Dark Surface (F7) Redox Depressions (F8)			unless disturbed or problematic.			
					_ Redox Depres	ssions (F8)				
Restrictive	layer (if preser	nt):					T			
	, (p									
Type:										
Depth (inc	ches):						Hydric Soil Presen	nt? Yes <u>x</u> No		
Remarks:										
HYDRO I	LOGY									
	ydrology Indica	ators:								
			quired: (check all that	apply)				Secondary Indicators (2 or more required)		
	•				_			<u> </u>		
1	Surface Wate	er (Δ1)			Water Stainer	d Leaves (R9) (excent MLRA	Water Stained Leaves (R9) (MLRA 1.2		

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that	apply)	Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	
Field Observations:			
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?	
Water Table Present? Yes	Nox Depth (inches):	Yes x No	
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_	
Describe Recorded Data (stream gauge, monitoring well, aer	rial photos, previous inspections), if available:		
Remarks:			
IIS Army Corns of Engineers		Western Mountains Valleys and Coast - Version 2.0	

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-12
Investigator(s):	A. Martin			Section, Town	iship, Range:	16, T12S, R	02W
Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	f (concave, co	nvex, none):	none	Slope (%):0%
Subregion (LRR):	LRR A		=	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	sification:	upland
Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of ye	ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation		or Hydrology				(If needed, e	explain any answers in Remarks.)
SUMMARY O						ations. t	ransects, important features, etc.
Hydrophytic Vegeta		Yes x	No	J • •	31.		
Hydric Soil Present Wetland Hydrology	?	Yes Yes	No No	x	Is the Sample	d Area withi	n a Wetland? Yes No x
Remarks:		small upland terrace at nor					100 <u>x</u>
remarks.	1 lot located in s	small upland terrace at nor	ur cria o	112 2004			
VECETATION	l lles seiem	tific names of plan	4-				
VEGETATION	i - Use scien	tific names of plan	ııs.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
1.							That are OBL, FACW, or FAC: 2 (A)
							Total Number of Dominant
4					· ——		Species Across All Strata: 2 (B)
			•		= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stra	tum (Plot size:		_)				
1			_				Prevalence Index worksheet:
2. 3.			-				Total % Cover of: Multiply by:
4.							FACW species x 2 =
5.							FAC species
Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species x 5 = (B) Column Totals: (A) (B)
	_ (_′	050/		F40	
Agrostis capillaris Schedonorus arund	dinaceus		 	65% 25	yes yes	FAC FAC	Prevalence Index = B/A =
 Hypochaeris radica Daucus carota 	ita			5		FACU FACU	Hydrophytic Vegetation Indicators:
5.							Rapid Test for Hydrophytic Vegetation
6. 7.					· ——		x Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
8.							Morphological Adaptations (1) (Provide supporting
							data in Remarks or on a separate sheet) Wetland Non-Vascular Plants (1)
11.							Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				100%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
Woody Vine Stratu	m (Plot size:)				must be present, unless disturbed or problematic.
	_ (_′				Understade
1. 2.			- ·		·		Hydrophytic Vegetation
					= Total Cover		Present? Yes x No
% Bare Ground in I	Herh Stratum		•		-		
	iein อแสเนฟ		-				
Remarks:							
US Army Corps of Engine	ers						Western Mountains, Valleys, and Coast – Version 2.0

Sampling Point:	SP-12	
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SOIL											
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks			
0.0	40\/\D\0\/0	400					-1-1				
0-9 9-14	10YR 3/2 10YR 3/2	100 95%	10YR 4/4	5		M	sicl				
14-20	10YR 3/2 10YR 3/2	90%	10YR 4/4	10	_ <u>C</u>	M	sicl				
14-20	10111 3/2	3070	1011114/4	10			3101				
	· ·		· —— -				. ————————				
	·										
	. .						· 				
(4)T	0	D. Davidation	DM Deduced Metals) (O)	Landing DL Bara Lining I	4. 8.4-4-5			
(1)Type: C=	Concentration,	D=Depletion	i, Rivi=Reduced Matrix	t, CS=Cov	ered of Coated S	sand Grains. (2)	Location: PL=Pore Lining, I	/I=IVIatrix.			
Hydric Soil	Indicators: (A	nnlicable to	all LRRs, unless oth	erwise no	oted)		Indicators of Problemat	ic Hydric Soils(3)			
riyane oon	maicators. (A	ppiicable to	an Litto, amess ou	ioi wise iic	ricu.,		indicators of Froblema	ic riyaric cons(o).			
	Histosol (A1) Sandy Redox			(S5)	2 cm Muck (A10)						
Histic Epipedon (A2)			Stripped Matr	rix (S6)		d Parent Material (TF2)					
	Black Histic (A3)			Loamy Mucky		Other (Explain in Remarks)					
	Hydrogen Sulfide (A4)			(except MLRA 1)							
	Depleted Below Dark Surface (A11)			Loamy Gleye							
	Thick Dark Su				_ Depleted Mat		(3) indicators of hydrophytic vegetation				
	Sandy Mucky				Redox Dark Surface (F6) Depleted Dark Surface (F7)		and wetland hydrology must be present, unless disturbed or problematic.				
	Sandy Gleyed	ı Mallıx (34)	' <u>-</u>		Redox Depre		unless disturbed or pro	Diematic.			
			=		_ Redux Depie	5510115 (1-0)					
Restrictive	layer (if preser	nt):									
		,									
Type:											
			<u> </u>								
Depth (inc	ches):						Hydric Soil Present?	Yes	No	Х	
Damada											
Remarks:											

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that a	ipply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)		
Field Observations:				
Surface Water Present? Yes	No x Depth (inches):	Wetland Hydrology Present?		
Water Table Present? Yes	Nox Depth (inches):	Yes No x		
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	-		
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspections), if available:			
Remarks:				
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0		

Project/Site:	Airport Industrial		(City/County:	Lebanon/Linn		Sampling Date :	8/14/2017		
Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-13		
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	02W			
Landform (hillslope	e, terrace, etc.): terra	ce Lo	cal relief	(concave, con	nvex, none):	none		Slope (%):	C	0%
Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: H	ARN NAD83	
Soil Map Unit N	Name: Clackamas v	ariant silt loam			NWI class	ification:	upland			
Are Climatic / hydro	ologic conditions on the	site typical for this ti	me of ye	ar?	Yes:	х	No:	(If	no explain in	remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes	<u>x</u> 1	No
Are Vegetation	Soil	or Hydrology	11	Naturally prob	lematic?	(If needed, e	explain any answers in Rem	arks.)		
SUMMARY O	F FINDINGS - A	ttach site map	showi	ng sampl	ing point loc	ations, ti	ransects, important	features, et	C.	
Hydrophytic Vegeta	ation Present?	Yes x	No							
Hydric Soil Present Wetland Hydrology		Yes	No No	x	Is the Sample	d Area withir		s	,	Nox
Remarks:	Plot located on east s	ide of small terrace in	n central	field. Variety	of non-native pas	ture grasses	with weedy patches.			
VEGETATION	N - Use scientific	names of plan	ts.							
				Absolute	Dominant	Indicator	Dominance Test Works	sheet:		
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dominant Sp	ecies		
1			_				That are OBL, FACW, or	r FAC:	2	(A)
			_				Total Number of Domina Species Across All Strat		2	(P)
4.			-				_ Species Across Air Strati	a.		(B)
			_		= Total Cover		Percent of Dominant Spo That are OBL, FACW, or		66	(A/B)
Sapling/Shrub Stra	atum (Plot size:)							<u> </u>
1			_				Prevalence Index work	sheet:		
3.			_				Total % Cover of: OBL species	x	1 = Multiply b	<u>y:</u>
4. 5			-				FACW species FAC species		2 = 3 =	_
<u> </u>			-				FACU species	x	4 =	<u> </u>
Herb Stratum	(Plot size: 5 ft o	ia)		= Total Cover		UPL species Column Totals:	x:	5 = \)	(B)
Schedonorus arun	dinaceus			40%	yes	FAC	Prevalence Index = B/A	=		
Agrostic capillaris Anthoxanthum odd	profum		_	40 20	yes	FAC FACU	-			<u></u>
4.	natum		_	20	yes	TACO	Hydrophytic Vegetation			
5. 6.			_					for Hydrophytic V Test is >50%	'egetation	
7. 8.			-					Index is <3.0 ⁽¹⁾ cal Adaptations ⁽¹⁾) (Provide sup	portina
9.			_				data in Ren	narks or on a sep on-Vascular Plant	arate sheet)	, 3
10. 11.			_					: Hydrophytic Ve		plain)
				100%	= Total Cover		(1) Indicato	rs of hydric soil a	nd wetland hy	drology
Woody Vine Stratu	(Diet eize:		,		='		must be pre	esent, unless dist	urbed or proble	ematic.
woody vine Stratu	IIII (FIOL SIZE.		,							
1. 2.			-				Hydrophytic Vegetation			
			_		= Total Cover		Present?	Yes	<u>x</u> 1	No
0/ Dara Committee	Llordo Chrodus		_							
% Bare Ground in	merd Stratum									
Remarks:										
US Army Corps of Engine	eers						Western Mou	intains, Valleys, and	d Coast – Versic	on 2.0

Sampling Point:	SP-13
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SOIL							Sampling Point:	SP-13		
	cription: (Desc	ribe to the	depth needed to doc	ument the	e indicator of co	onfirm the abse	nce of indicators.)			
Depth	Matrix		Redox Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks	
0-10	10YR 3/2	100		sicl						
10-20			С	М	sicl					
							·	-		
							-			
					 -					
(1)Type: C=	Concentration, I	D=Depletion	, RM=Reduced Matrix	ر, CS=Cov	ered of Coated S	Sand Grains. (2)	ocation: PL=Pore Lini	ng, M=Matrix.		
Hydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	nerwise no	oted.)		Indicators of Proble	ematic 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)		-	Other (Explain in Rema	arks)		
	Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11)		face (A11)		Loamy Gleyed Matrix (F2)					
	Thick Dark Surface (A12)				Depleted Mat	trix (F3)	(3) indicators of hy	drophytic vegetation		
	Sandy Mucky Mineral (S1)				Redox Dark S		and wetland hydrology must be present, unless disturbed or problematic.			
	Sandy Gleyed	Matrix (S4)	-		Redox Depres	k Surface (F7)	unless disturbed or	r problematic.		
			-							
Restrictive	layer (if presen	nt):								
Type:										
Depth (inc	ches):						Hydric Soil Present	t? Yes	No	х
Remarks:										
					,					,
HYDRO	LOGY									
	drology Indica									
Primary Ind	icators (minimun	n of one req	uired: (check all that a	ipply)	_			Secondary Indicators (2 or more required)	

Wetland Hydrology Indicators: Primary Indicators (minimum of one rec	uired: (check all that apply)			Secondary Ir	ndicators (2 or more 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 (B8) Field Observations:		1,2,4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent iron Stunted or S		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)		
Field Observations:						
Surface Water Present? Yes	No	x	Depth (inches):	Wetland Hyd	drology Present?	
Water Table Present? Yes	No	x	Depth (inches):	Yes	No x	
Saturation Present? Yes (includes capillary fringe)	No	x	Depth (inches):	_		
Describe Recorded Data (stream gaug	e, monitoring well, aerial photos, p	orevious inspe	ctions), if available:			
Remarks:						
US Army Corps of Engineers				Western Moun	tains. Valleys and Coast - Version 2.0	

Project/Site:	Airport Industrial		_City/County:	Lebanon/Linn		Sampling Date :	8/14/2017
Applicant/Owner:	City of Lebanon		State:	OR		Sampling Point:	SP-14
Investigator(s):	A. Martin		_Section, Towr	nship, Range:	16, T12S, R	02W	
Landform (hillslop	pe, terrace, etc.): terrace	Local reli	ef (concave, co	nvex, none):	concave		Slope (%):
Subregion (LRR):	LRR A		Lat:44	.529142° N	Long:	-123.933778° W	Datum: HARN NAD83
Soil Map Unit	Name: Clackamas variant silt loa	m		NWI class	sification:	upland	
Are Climatic / hyd	Irologic conditions on the site typical for	or this time of	/ear?	Yes:	х	No:	(If no explain in remarks)
Are Vegetation	Soil or Hydrol	ogy	Significantly d	isturbed?	Are"Normal	Circumstances" present?	
Are Vegetation	Soil or Hydrolo	ogy	- Naturally prob	lematic?	(If needed, e	explain any answers in Rer	narks.)
SUMMARY (DF FINDINGS - Attach site						
Hydrophytic Vege		x No	g camp.	g po		. unocoto, importan	
Hydric Soil Prese	nt? Yes	x No		Is the Sample	d Area withi		es x No
Wetland Hydrolog				of TL 2004		TE	es <u>x</u> No
Remarks:	Plot located on east side of small u	ipiano terrace	near north end	OT IL 2804			
VEGETATIO	N - Use scientific names of	plants.	Absolute	Dominant	Indicator	Dominance Test Work	sheet:
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dominant S	naciae
1						That are OBL, FACW, o	
L			-			Total Number of Domin	ant
4.			-			Species Across All Stra	(B)
				= Total Cover		Percent of Dominant Sp	
Sapling/Shrub Str	ratum (Plot size: 10 ft dia)				That are OBL, FACW, o	or FAC:(A/B)
1	_					Prevalence Index wor	ksheet.
2.				·		Total % Cover of:	Multiply by:
3. 4.						OBL species FACW species	x 1 = x 2 =
5.						FAC species FACU species	x 3 =x 4 =
			10%	= Total Cover		UPL species	x 5 =
Herb Stratum	(Plot size: 5 ft dia)				Column Totals:	(A)(B)
Schedonorus arui Agrostis capillaris			40%	yes yes	FAC FAC	Prevalence Index = B/A	\ =
3. Holcus lanatus			10	yes	FAC	_	
 Anthoxanthum od 	loratum		10	- ——	FACU	Hydrophytic Vegetation	on Indicators: t for Hydrophytic Vegetation
6.							e Test is >50%
7.							e Index is <3.0 ⁽¹⁾
8. 9.							ical Adaptations (1) (Provide supporting marks or on a separate sheet)
40						Wetland N	on-Vascular Plants (1)
11					-	Problemat	ic Hydrophytic Vegetation ⁽¹⁾ (Explain)
			100%	= Total Cover		, ,	ors of hydric soil and wetland hydrology
Woody Vine Strat	tum (Plot size:)				must be pr	resent, unless disturbed or problematic.
						Unideanhistia	
1. 2.				- <u> </u>		Hydrophytic Vegetation	
				= Total Cover		Present?	Yes x No
0/ 5	- Usah Obsekur						
% Bare Ground in	n Herb Stratum						
Remarks:							
110 4 0 1-							watering Welleys on LO 11 M 1 To
US Army Corps of Engir	ieers					Western Mo	untains, Valleys, and Coast – Version 2.0

Sampling Point:	SP-14

SOIL							Sampling Point:	SP-14		<u> </u>	
	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Rem	narks	
0-6	10YR 3/2	100					sicl				
6-15	10YR 3/2	95%	10YR 4/4	5	С С	М	sicl				
15-20	10YR 3/1	95%	10YR 3/4	5	С	M	sicl				
											
							-	-			
(4) T O	0	D. Davidakia	- DM Deduced Meter	00.0-) 1 O i (O)	Landing DL David Link				
(1)Type: C=	Concentration, I	D=Depletior	1, RM=Reduced Matrix	k, US=Uov	ered of Coated S	and Grains. (2)	Location: PL=Pore Lini	ng, ivi=iviatrix.			
Hydric Soil	Indicators: (Ap	oplicable to	o all LRRs, unless oth	nerwise no	oted.)		Indicators of Proble	ematic Hydric S	ioils(3).		
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A	10)		
Histic Epipedon (A2)			-	Stripped Matrix (S6)				Red Parent Material (TF2)			
Black Histic (A3)			=	Loamy Mucky Mineral (F1)				Other (Explain	ı in Remarks)		
	Hydrogen Sulf		rface (A11)		_ (except MLRA Loamy Gleyed						
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)				Depleted Matr		(3) indicators of hydronical	drophytic vegeta	ation			
Sandy Mucky Mineral (S1)			Х	Redox Dark S	٠,	and wetland hydrol		esent,			
	Sandy Gleyed	Matrix (S4) _		_	k Surface (F7)	unless disturbed or	problematic.			
			-		_ Redox Depres	ssions (F8)					
Restrictive	layer (if presen	nt):									
Type:											
Depth (inc	ches):						Hydric Soil Present	? Yes	X	No	
Remarks:					_						
HYDROI	OGV										
	drology Indica	tors:									
			quired: (check all that a	apply)				Secondary Inc	dicators (2 or m	nore required)	
					·						

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check al	II that apply)	Secondary Indicators (2 or more 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 (Bi	· · · · · · · · · ·	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):	Wetland Hydrology Present?			
Water Table Present? Yes	Nox Depth (inches):	Yesx No			
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_			
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previous inspections), if available:				
Remarks:					
US Army Corps of Engineers		Western Mountains Valleys and Coast - Version 2.0			

Project/Site:	Airport Industrial		_City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
Applicant/Owner:	City of Lebanon		State:	OR		Sampling Point:	SP-15	
Investigator(s):	A. Martin		Section, Towr	nship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.): terrace	Local rel	ief (concave, co	nvex, none):	none		Slope (%):	0%
Subregion (LRR):	LRR A		Lat:44	.529142° N	Long:	-123.933778°	Datum: HAR	N NAD83
Soil Map Unit N	Name: Dayton silt loam			_ NWI class	sification:	upland		
Are Climatic / hydro	ologic conditions on the site ty	ypical for this time of	year?	Yes:	Х	No:	(If no	explain in remarks)
Are Vegetation	Soil or	Hydrology	_Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes_x	No
Are Vegetation	Soilor	Hydrology	Naturally prob	lematic?	(If needed, e	xplain any answers in Rer	marks.)	
SUMMARY O	F FINDINGS - Attacl				ations. to	ransects. importan	t features, etc.	
Hydrophytic Vegeta		res x No				,,		
Hydric Soil Present Wetland Hydrology	t? Y	res x No		Is the Sample	d Area within		es x	No
Remarks:	Plot located on east side of							NO
Remarks.	Plot located on east side of	TL 2004						
VEGETATION	I - Use scientific nam	ies of plants.	Absolute	Dominant	Indicator	Dominance Test World	sheet:	
Tree Stratum	(Plot size: 30 ft dia)	% Cover	Species?	Status	Number of Dominant S	nacias	
1						That are OBL, FACW,		(A)
_						Total Number of Domin	ant	
4.						Species Across All Stra	ata:	(B)
				= Total Cover		Percent of Dominant S		
Sapling/Shrub Stra	tum (Plot size: 10 ft dia)				That are OBL, FACW,	or FAC:	100(A/B)
1.						Prevalence Index wor	ksheet:	
2.				·		Total % Cover of:		Multiply by:
3. 4.						OBL species FACW species	x 2 =	
5.						FAC species FACU species	x 3 =	
				= Total Cover		UPL species	x 5 =	
Herb Stratum	(Plot size: 5 ft dia)				Column Totals:	(A)	(B)
Agrostis capillaris Schedonorus arund	dinaceus		60% 40	yes yes	FAC FAC	Prevalence Index = B/A	\ =	
3.	umaceus		40	yes	TAC	_		
4. 5.						Hydrophytic Vegetation Rapid Tes	on Indicators: t for Hydrophytic Ve _l	getation
6. 7				·			e Test is >50% e Index is <3.0 ⁽¹⁾	
8.						Morpholog	ical Adaptations ⁽¹⁾ (I	
9. 10.							marks or on a separ lon-Vascular Plants ⁽	
11						Problemat	ic Hydrophytic Vege	tation ⁽¹⁾ (Explain)
			100%	= Total Cover		` '	ors of hydric soil and	, ,,
Woody Vine Stratu	m (Plot size:)				must be pi	resent, unless distur	bed or problematic.
1.						Hydrophytic		
2.						Vegetation	V	No
				= Total Cover		Present?	Yes <u>x</u>	No
% Bare Ground in	Herb Stratum							
		 -						
Remarks:								
US Army Corps of Engine	ers					Western Mo	ountains, Valleys, and C	Coast – Version 2.0

Sampling Point:	SP-15
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SOIL							Sampling Point:	SP-15			
	cription: (Desci	ribe to the	depth needed to doo	cument the	e indicator of co	nfirm the abse	nce of indicators.)				
	. ,		•				,				
Depth	Matrix		Redox Features				<u> </u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Infirm the absence of indicators.) Loc (2) Texture	Remarks				
0-5	10YR 3/2	100					sicl				
5-10	10YR 3/2	90%	10YR 4/6	10	С С	М		-			
10-20	10YR 4/1	90%	5YR 4/4	10	C	М					
							- (<u> </u>				
							0.0	_			
								<u> </u>			
	-							-			
(1)Type: C=	Concentration, [D=Depletio	n, RM=Reduced Matri:	x, CS=Cov	ered of Coated S	and Grains. (2)	Location: PL=Pore Lini	ing, M=Matrix.			
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless otl	nerwise no	oted.)		Indicators of Proble	ematic Hydric Soils(3).			
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)			
	Histic Epipedo	n (A2)	-		Stripped Matri	. ,	Red Parent Material (TF2)				
	Black Histic (A	(3)	- -		Loamy Mucky	/ Mineral (F1)					
	Hydrogen Sulf				(except MLRA						
Х	Depleted Belo						and wetland hydrology must be present,				
	Thick Dark Su Sandy Mucky	,	· _	X X	Depleted Matr						
	Sandy Mucky Sandy Gleyed			^_							
			· -		Redox Depres						
					_ ·						
Restrictive	layer (if presen	ıt):									
Type:											
Type.											
Depth (inc	hes):						Hydric Soil Present	t Yes x No			
. ,	_						-				
Remarks:											
HYDROI	OGY										
	drology Indica	tors:									
			quired: (check all that a	apply)				Secondary Indicators (2 or more required)			
	•										
	Surface Water	. ,	-		Water Stained	, , ,	except MLRA	Water Stained Leaves (B9) (MLRA 1,2,			

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that a	pply)	Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	Nox Depth (inches):	Yesx No
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	-
Describe Recorded Data (stream gauge, monitoring well, aeria	al photos, previous inspections), if available:	
Remarks:		
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0

Project/Site:	Airport Industria	1		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
Applicant/Owner:	City of Lebanon	ı		State:	OR		Sampling Point: SP-16
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	none	Slope (%): 0%
Subregion (LRR):	LRR A		_	Lat:44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	Name: Clacka	mas variant silt loam			NWI class	sification:	upland
Are Climatic / hydr	ologic conditions	on the site typical for this t	ime of y	ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly di	sturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation		or Hydrology				(If needed, e	explain any answers in Remarks.)
SUMMARY O				_			ransects, important features, etc.
Hydrophytic Veget Hydric Soil Presen		Yes x Yes x	No No		Is the Sample	d Area within	n a Wetland?
Wetland Hydrology		Yes x	No				Yes x No No
Remarks:	Plot located in 6	east field to test slightly cro	owned a	rea.			
VEGETATION	N - Use scien	tific names of plan	ıts				
				Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
1.			-				That are OBL, FACW, or FAC: 2 (A)
3.							Total Number of Dominant
4			•				Species Across All Strata: 2 (B)
					= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stra	atum (Plot size:)				That are ODE, FAOW, OFFAO.
1.							Prevalence Index worksheet:
2.							Total % Cover of: Multiply by:
3. 4.			-		. ——		OBL species x 1 = FACW species x 2 =
5.							FAC species x 3 =
					= Total Cover		FACU speciesx 4 =
Herb Stratum	(Plot size:	5 ft dia	_)				Column Totals: (B)
Agrostis capillaris				50%	yes	FAC	Prevalence Index = B/A =
Schedonorus arun	dinaceus			25	yes	FAC	
Anthoxanthum odd Hypochaeris radical			-	15 10		FACU FACU	Hydrophytic Vegetation Indicators:
5.	ata		<u>.</u>			1700	Rapid Test for Hydrophytic Vegetation
6.							x Dominance Test is >50%
7. 8.			•				Prevalence Index is <3.0 ⁽¹⁾ Morphological Adaptations ⁽¹⁾ (Provide supporting
							data in Remarks or on a separate sheet)
10. 11.			•				Wetland Non-Vascular Plants (1) Problematic Hydrophytic Vegetation (1) (Explain)
· ··· <u></u>			•		. ——		
				100%	= Total Cover		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratu	ım (Plot size:		_)				must be present, unless disturbed of problematic.
1							Hydrophytic
2.			-				Vegetation
					= Total Cover		Present? Yes x No
					- Total Gover		
% Bare Ground in	Herb Stratum		-				
Remarks:							•
US Army Corps of Engine	eers						Western Mountains, Valleys, and Coast - Version 2.0

Sampling Point: S	SP-16
Camping Font.)I - IO

SOIL										
rofile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)			
Depth	Matrix		Redox Features				_			
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks		
-8	10YR 3/2	100					sicl			
-11	10YR 3/2	95%	10YR 4/4	5	С С	М	sicl			
1-21	10YR 4/2	90%	10YR 5/4	10	С	М	cl			
			<u> </u>							
			-							
L)Type: C=	-Concentration I	D=Depletion	DM=Deduced Matrix	/ CS=Cov	ared of Coated S	and Grains (2)	Location: PL=Pore Lin	ing M=Matrix		
утуре. С-	-Concentration, t	D-Depletion	i, Nivi-Neduced Matriz	t, C3-C0V	ered or Coaled S	ianu Grains. (2)	Location: 1 L=1 ore Lin	ing, w-watta.		
ydric Soil	I Indicators: (Ap	oplicable to	all LRRs, unless oth	nerwise no	ted.)		Indicators of Probl	ematic Hydric Soils(3).		
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)		
	Histic Epipedon (A2)				Stripped Matri	ix (S6)		Red Parent Material (TF2)		
	Black Histic (A	,	_	Loamy Mucky Mineral (F1)				Other (Explain in Remarks)		
	Hydrogen Sulf Depleted Belo		face (A11)		(except MLRA					
Х	Thick Dark Su			Loamy Gleyed Matri Depleted Matrix (F3)		i Maurix (F2)	(3) indicators of hy	ydrophytic vegetation		
	Sandy Mucky			Х	Redox Dark S			plogy must be present,		
	Sandy Gleyed	Matrix (S4)				k Surface (F7)	unless disturbed o	or problematic.		
			-		Redox Depres	ssions (F8)				
estrictive	layer (if presen	nt):								
Tuno										
Type:										
Depth (inc	ches):						Hydric Soil Presen	t? Yes <u>x</u> No		
Remarks:										
IYDROI	LOGY									
etland Hy	ydrology Indica	tors:								

Wetland Hydrology Indicators: Primary Indicators (minimum of one	required: (check all that apply)			Secondary I	ndicators (2 or	more required)
Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on Sparsely Vegetated C	2)	1,2,4A, a Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent iror Stunted or	,	X X	4A, and 4B) Drainage Pat Dry-Season V Saturation Vis Geomorphic I Shallow Aquit FAC-Neutral Raised Ant M	terns (B10) Nater Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)
Field Observations:						
Surface Water Present?	Yes No	o <u>x</u>	Depth (inches):	Wetland Hy	drology Prese	ent?
Water Table Present?	Yes No	o <u>x</u>	Depth (inches):	Yes	x	No
Saturation Present? (includes capillary fringe)	Yes No	o <u>x</u>	Depth (inches):	_		
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos,	previous inspe	ections), if available:			
Remarks:						
US Army Corps of Engineers				Western Mou	ntains Valleve ar	nd Coast - Version 2.0

Project/Site:	Airport Industri	al		_City/County:	Lebanon/Linn		Sampling Date : 8/14/2017
Applicant/Owner:	City of Lebano	n		State:	OR		Sampling Point: SP-17
Investigator(s):	A. Martin			_Section, Town	ship, Range:	16, T12S, R	R02W
Landform (hillslop	oe, terrace, etc.):	terrace L	ocal reli	ef (concave, cor	nvex, none):	concave	Slope (%): 0%
Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit	Name: Dayton	n silt loam			NWI class	sification:	_upland
Are Climatic / hyd	Irologic conditions	on the site typical for this	time of y	/ear?	Yes:	х	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation	Soil	or Hydrology		- Naturally prob	lematic?	(If needed, e	explain any answers in Remarks.)
SUMMARY (_			transects, important features, etc.
Hydrophytic Vege Hydric Soil Presei		Yes x Yes x	No No		Is the Sample	d Area withi	in a Wetland?
Wetland Hydrolog	gy Present?	Yes x	No				Yes x No
Remarks:	Plot located in	cultivated rye grass field					
VEGETATIO	N - Use scier	ntific names of plar	nts.				
				Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
1. 2.			_				That are OBL, FACW, or FAC: 1(A)
_							Total Number of Dominant
4			-				Species Across All Strata: 1 (B)
					= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Str	ratum (Plot size:		_)				
1			_				Prevalence Index worksheet:
2. 3.			-		·		Total % Cover of: Multiply by:
4.			_				FACW species x 2 =
5			_		·		FAC species x 3 = FACU species x 4 =
Herb Stratum	(Plot size:	5 ft dia	`		= Total Cover		UPL species
	_ `	5 it dia	_'				
 Lolium multiflorun 2. 	n		=	90%	yes	FAC	Prevalence Index = B/A =
3. 4.			=				— Hydrophytic Vegetation Indicators:
5.			- -				Rapid Test for Hydrophytic Vegetation
6. 7.			_	-			x Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
8.			<u> </u>				Morphological Adaptations (1) (Provide supporting
9. 10.			_				data in Remarks or on a separate sheet) Wetland Non-Vascular Plants (1)
11.			- -				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				90%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
Woody Vine Strat	um (Plot size:		`		•		must be present, unless disturbed or problematic.
vvoody ville Strat	tulli (Flot Size.		_'				
1. 2.			_				Hydrophytic Vegetation
			_		T-t-I O		Present? Yes x No
					= Total Cover		
% Bare Ground in	n Herb Stratum	90	-				
Remarks:							
UO A 0							Western Manufactor V III 100 of 100 o
US Army Corps of Engin	ICCIS						Western Mountains, Valleys, and Coast – Version 2.0

SOIL							Sampling Point:	SP-17		
	crintion: (Desc	ribe to the	depth needed to do	cument the	e indicator of co	nfirm the abse	nce of indicators)			
i ionic Des	cription. (Desc	inde to the	depth heeded to do	cumont the	s indicator or co	minim the abse	nice of indicators.			
Depth	Matrix		Redox Features				_			
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks		
0-5	10YR 3/2	100					sicl			
5-11	10YR 3/2	95%	10YR 4/4	- 5		М	sicl	_		
11-19	10YR 4/2	90%	10YR 4/6	10		M	cl	- -		
			-							
							_			
							<u> </u>			
	 -									
(1)Type: C=	Concentration,	D=Depletio	n, RM=Reduced Matr	rix, CS=Cov	ered of Coated S	and Grains. (2)	Location: PL=Pore Lin	ning, M=Matrix.		
. , ,,	·									
Hydric Soil	I Indicators: (A	pplicable to	o all LRRs, unless of	therwise no	oted.)		Indicators of Probl	lematic Hydric Soils(3).		
					Candy Dadey	(05)		O are Musely (AdO)		
	 Histosol (A1) Histic Epipedo 				Sandy Redox Stripped Matr		-	2 cm Muck (A10) Red Parent Material (TF2)		
	Black Histic (/				Loamy Mucky		-	Other (Explain in Remarks)		
	Hydrogen Sul			-	(except MLRA					
Х	Depleted Belo			Loamy Gleyed Matrix (F2)						
	Thick Dark Surface (A12)		,	Depleted Matrix (F3)			(3) indicators of hydrophytic vegetation			
	Sandy Mucky			x Redox Dark Surface (F6) Depleted Dark Surface (F7)			and wetland hydrology must be present, unless disturbed or problematic.			
	Sandy Gleyed	d Matrix (S4	•)		Redox Depres	, ,	unless disturbed o	or problematic.		
					_ Redux Depres	5510115 (1-0)				
Restrictive	layer (if preser	nt):								
Type:										
Donath Co.	- l \						Hardela Oall Barrer	No.		
Depth (inc	cnes):						Hydric Soil Presen	nt? Yes <u>x</u> No		
Remarks:										
HYDRO I	LOGY									
Wetland Hy	ydrology Indica	ators:								
Primary Ind	licators (minimur	m of one red	quired: (check all that	apply)				Secondary Indicators (2 or more required)		
	Curfoso Moto	- (4.4)			Matan Otalia	d L covec (BO) (awaant MI DA	Weter Stained Leaves (PO) (MLDA 1.2		

Primary Indicators (minimum of one required: (check all that apply)		Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	Nox Depth (inches):	Yesx No
Saturation Present? Yes Includes capillary fringe)	Nox Depth (inches):	_
Describe Recorded Data (stream gauge, monitoring well, aerial photos	s, previous inspections), if available:	
Remarks:		
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017	
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-18	
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W	
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	concave	Slope (%):	0%
Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83	
Soil Map Unit N	Jame: Clacka	mas variant silt loam	-		NWI class	ification:	upland	
·		on the site typical for this t	ime of v	rear?	•	х	•	remarks)
Are Vegetation	-	or Hydrology			_		<u> </u>	No
•							· <u></u>	NO
Are Vegetation		or Hydrology		_			xplain any answers in Remarks.)	
SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampli	ing point loc	ations, t	ransects, important features, etc.	
Hydrophytic Vegeta Hydric Soil Present		Yes x Yes x	No No		Is the Sample	d Area withi	n a Wetland?	
Wetland Hydrology		Yes x	No		·			No
Remarks:	Plot located in o	cultivated annual rye grass	field					
VEGETATION	I - Use scien	tific names of plar	ıts.					
Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
	(* 101 0.20		_′		5,000.00		Number of Dominant Species	(4)
1. 2.			<u>-</u>				That are OBL, FACW, or FAC:	(A)
3			=				Total Number of Dominant Species Across All Strata: 1	(B)
			-					(5)
					= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100	(A/B)
Sapling/Shrub Stra	tum (Plot size:		_)					
1			_				Prevalence Index worksheet:	
2.			-				Total % Cover of: Multiply b	by:
4.			-				FACW species x 2 =	<u> </u>
5			-				FAC speciesx 3 = FACU speciesx 4 =	
Herb Stratum	(Diet size:	5 ft dia	`		= Total Cover		UPL species x 5 = Column Totals: (A)	
Helb Stratum	_ (FIOUSIZE.	5 It tila	_)					—(B)
Lolium multiflorum 2.			-	95%	yes	FAC	Prevalence Index = B/A =	_
3.			-					
4. 5.			-				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation	
6. 7.			-				_ x Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾	
8.			- -				Morphological Adaptations (1) (Provide sup	porting
9. 10.			-				data in Remarks or on a separate sheet) Wetland Non-Vascular Plants (1)	
11.			-				Problematic Hydrophytic Vegetation ⁽¹⁾ (Ex	.plain)
				95%	= Total Cover		(1) Indicators of hydric soil and wetland hy	/drology
Woody Vine Stratu	m (Plot size:)				must be present, unless disturbed or probl	iematic.
-veedy vine endia	<u></u> . (1 lot 0.20.							
1. 2.			-				Hydrophytic Vegetation	
			-		- Total Cavas		Present? Yes x	No
					= Total Cover			
% Bare Ground in I	Herb Stratum	5	=					
Remarks:								
US Army Corps of Engine	ers						Western Mountains, Valleys, and Coast - Version	on 2.0

							Sampling Point:	SP-18		
SOIL		-11 4 41	4 - 4 4 - 4 - 4 - 4 -				6 ! 1! 6			
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)			
Depth	Matrix		Redox Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks		
0-8	10YR 3/2	100					sicl			
8-12	10YR 3/2	93%	10YR 4/4	7		M	sicl	<u>-</u>		
12-20	10YR 4/2	85%	10YR 4/4	15		M	cl	-		
	 		_ _ _							
								-		
							-	-		
(1)Type: C=	Concentration, I	D=Depletio	n, RM=Reduced Matrix	x, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lini	ing, M=Matrix.		
Hydric Soil	Indicators: (Ar	onlicable to	o all LRRs, unless oth	herwise no	nted)		Indicators of Proble	ematic Hydric Soils(3).		
,	maioatoro: (Ap	opiioubio t	Juli Erato, amooo oa	101 11100 110	,tou.,		maioatoro or riobi	smalle Hydrie cons(c).		
	Histosol (A1)				Sandy Redox			_ 2 cm Muck (A10)		
	Histic Epipedo		-		_ Stripped Matri			Red Parent Material (TF2) Other (Explain in Remarks)		
	Black Histic (A Hydrogen Sulf	,	-		Loamy Mucky (except MLRA			Other (Explain in Remarks)		
Х	Depleted Belo		rface (A11)		Loamy Gleyed					
	Thick Dark Su	ırface (A12)	Depleted Matrix (F3)			(3) indicators of hydrophytic vegetation			
	Sandy Mucky			Х	_ Redox Dark S		and wetland hydrology must be present,			
	Sandy Gleyed	Matrix (S4	-) _		Redox Depres	k Surface (F7)	unless disturbed o	r problematic.		
			-		_ Nedox Depres	3310113 (1 0)				
Restrictive	layer (if presen	nt):								
_										
Type:										
Depth (inc	ches):						Hydric Soil Present?	Yes x No		
	_						,			
Remarks:										
HYDROI	_OGY									
	drology Indica									
Primary Ind	icators (minimun	n of one re	quired: (check all that a	apply)	_			Secondary Indicators (2 or more required)		

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that a	apply)	Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Field Observations:				
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?		
Water Table Present? Yes	Nox Depth (inches):	YesxNo		
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_		
Describe Recorded Data (stream gauge, monitoring well, aeri-	al photos, previous inspections), if available:	, I		
Remarks:				
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0		

Project/Site:	Airport Industrial			City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-19	
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.): terrace	ce Lo	cal relie	f (concave, cor	nvex, none):	none		Slope (%):	0%
Subregion (LRR):	LRR A			Lat: 44.	529142° N	Long:	-123.933778° W	Datum: HAF	RN NAD83
Soil Map Unit N		ariant silt loam			NWI class		upland		
•	ologic conditions on the		me of w	aar?		X		(If n	o explain in remarks)
•	•	,,			_			_	
Are Vegetation	Soil						Circumstances" present?	Yes x	No
Are Vegetation	Soil	or Hydrology		Naturally probl	ematic?	(If needed, e	explain any answers in Rem	arks.)	
SUMMARY O	F FINDINGS - A	ttach site map	show	ing sampli	ng point loc	ations, t	ransects, important	features, etc.	
Hydrophytic Vegeta Hydric Soil Presen		Yes x	No		Is the Sample	d Aroa within	n a Wotland?		
Wetland Hydrology		Yes x Yes x	No No		is the Sample	u Area Willin		sx	No
Remarks:	Plot located in rye gra	ss field							
VEGETATION	I - Use scientific	names of plan	te						
VEGETATION	- Ose scientific	names of plan	is.	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dominant Sp	ecies	
1							_ That are OBL, FACW, o		1(A)
_							Total Number of Domina	ant	
4.							Species Across All Strat	a:	1(B)
					= Total Cover		Percent of Dominant Sp	ecies	
Sapling/Shrub Stra	tum (Plot size:)				That are OBL, FACW, o	r FAC:	(A/B)
- Capining Cinias Cas	<u></u>		,						
1. 2.							Prevalence Index work Total % Cover of:	sheet:	Multiply by:
3.							OBL species	x 1 :	= <u></u>
4 5							FACW species FAC species	x 2 =x 3 =	<u> </u>
					= Total Cover		FACU species UPL species	x 4 =	=
Herb Stratum	(Plot size: 5 ft d	ia)		- Total Gover		Column Totals:	(A)	(B)
Lolium multiflorum				85%	ves	FAC	Prevalence Index = B/A	=	
2.							- -		
4.							Hydrophytic Vegetatio	n Indicators:	
5. 6.								for Hydrophytic Ver Test is >50%	getation
7.							Prevalence	Index is <3.0 ⁽¹⁾	
8. 9.								cal Adaptations ⁽¹⁾ (I narks or on a separ	
10.								on-Vascular Plants (
11							Problematio	c Hydrophytic Vege	tation (Explain)
				85%	= Total Cover				l wetland hydrology bed or problematic.
Woody Vine Stratu	m (Plot size:)				must be pre	esent, unless distun	bed of problematic.
1.							Hydrophytic		
2.							Vegetation		
					= Total Cover		Present?	Yes <u>x</u>	No
% Bare Ground in	Harb Strature 45								
% Bare Ground in	Herb Stratum 15								
Remarks:			_						
US Army Corps of Engine	ers						Western Mou	untains, Valleys, and C	coast – Version 2.0

							Sampling Point:	SP-19		
SOIL										
Profile Des	cription: (Desc	ribe to the	depth needed to doo	ument the	indicator of co	onfirm the abse	nce of indicators.)			
.			5. 5.							
Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type (1)	Loc (2)	_ Texture	Remarks		
(Inches)	Color (moist)	70	Color (moist)	- 70	1 ype (1)	LUC (2)	rexture	Remarks		
0-7	10YR 3/2	100					sicl			
7-13	10YR 3/2	95%	10YR 4/6	5	С	М	sicl			
13-19	10YR 3/1	90%	10YR 3/4	10	С	М	cl			
	·									
(1)Type: C=	Concentration, [D=Depletion	n, RM=Reduced Matrix	x, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lin	ning, M=Matrix.		
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless otl	nerwise no	oted.)		Indicators of Probl	lematic Hydric Soils(3).		
	Histosol (A1)				Sandy Redox	· (QE)		2 cm Muck (A10)		
	Histic Epipedo	nn (A2)	-		Stripped Matri			Red Parent Material (TF2)		
	Black Histic (A		-		Loamy Mucky			Other (Explain in Remarks)		
	Hydrogen Sulf	,	-		(except MLRA 1)		-	()		
	Depleted Belo	w Dark Sur	rface (A11)		Loamy Gleyed	d Matrix (F2)				
	Thick Dark Su	, ,	_		Depleted Mati	. ,		ydrophytic vegetation		
	Sandy Mucky			Х	_ Redox Dark S		and wetland hydrology must be present,			
	Sandy Gleyed	Matrix (S4	·) _			k Surface (F7)	unless disturbed or problematic.			
			-		_ Redox Depres	ssions (F8)				
Restrictive	layer (if presen	ıt):		-						
Type:										
Danth (in a	h = = \.						Undria Cail Brasson	Ma Na		
Depth (inc							Hydric Soil Presen	nt? Yes x No No		
Remarks:										
HYDROL	.OGY									
	drology Indica									
Primary Indi	cators (minimun	n of one rec	quired: (check all that a	apply)	_			Secondary Indicators (2 or more required)		
	0	- (4.4)			W-t 0t-i	-l.l (DO) (-		Makes Obsided Lagrans (DO) (MLDA 4.0		
	Surface Water Ta		-		Water Stained	d Leaves (B9) (e	except MLRA	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B)		
	indii vvaldi la	1010 IAC1			1.4.77. aliu	TUI		7/1. aliu 7/2/		

Wetland Hydrology Indicator Primary Indicators (minimum o		at apply)		Secondary I	ndicators (2 or more 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 (B8)			ned Leaves (B9) (except MLRA nd 4B) (B11) (B11) (B11) (B13) Sulfide Odor (C1) (C3) of Reduced Iron (C4) n Reduction in Tilled Soils (C6) (C6) (C7) (C8) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			
Field Observations:							
Surface Water Present?	Yes	No x	Depth (inches):	Wetland Hy	drology Present?		
Water Table Present?	Yes	No x	Depth (inches):	Yes	x No		
Saturation Present? (includes capillary fringe)	Yes	No x	Depth (inches):	_			
Describe Recorded Data (streat	am gauge, monitoring well, a	aerial photos, previous insp	ections), if available:				
Remarks:							
US Army Corps of Engineers				Western Mou	ntains Valleys and Coast - Version 2.0		

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date: 8/17/2017
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-20
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W
	Landform (hillslope,	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	concave	Slope (%): 0%
	Subregion (LRR):	LRR A			Lat: 44.	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
	Soil Map Unit N		ımas variant silt loam	-		NWI class	•	upland
	·		on the site typical for this t	ime of v	ear?	•	X	•
		-				_		-
			or Hydrology					Circumstances" present? Yes x No No
	Are Vegetation	Soil	or Hydrology		Naturally probl	ematic?	(If needed, e	explain any answers in Remarks.)
	SUMMARY OF	FFINDINGS	- Attach site map	shov	ving sampli	ing point loc	ations, to	ransects, important features, etc.
	Hydrophytic Vegeta Hydric Soil Present		Yes x Yes x	No No		Is the Sample	d Aroa within	n a Watland?
	Wetland Hydrology		Yes X	No		is the Sample	u Area witiiii	Yes x No
	Remarks:	Plot located at	south end of TL 2802 in de	pressio	n on north side	of elevated berm	on north side	e of creek
	VEGETATION	- Uso scion	tific names of plan	ıte				
	VEGETATION	- USE SCIEN	tille flames of plan	ııs.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
	Tree Stratum	(Plot size:		_)	% 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: 1 (B)
						= Total Cover		Percent of Dominant Species
	Sapling/Shrub Strat	tum (Plot size:)				That are OBL, FACW, or FAC:(A/B)
	<u>oupmigronius ouus</u>	<u></u> (1 101 01.20.	-					
1. 2.								Prevalence Index worksheet: Total % Cover of: Multiply by:
3.								OBL species x 1 =
4. 5.				-				FACW species
				-		= Total Cover		FACU species
	Herb Stratum	(Plot size:	5 ft dia)		- Total Gover		Column Totals: (A) (B)
1.	Lolium multiflorum				90%	ves	FAC	Prevalence Index = B/A =
2.								
3. 4.				-				Hydrophytic Vegetation Indicators:
5. 6.				-		· 		Rapid Test for Hydrophytic Vegetation x Dominance Test is >50%
7.				<u>.</u>				Prevalence Index is <3.0 ⁽¹⁾
8. 9.				-			-	Morphological Adaptations (1) (Provide supporting data in Remarks or on a separate sheet)
10				-				Wetland Non-Vascular Plants (1)
11				-				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	Woody Vine Stratur	n (Plot size:		_)				must be present, unless disturbed of problematic.
1								Hydrophytic
2.								Vegetation
						= Total Cover		Present? Yes x No
	% Bare Ground in F	erb Stratum	10	-				
	Remarks:							
US	Army Corps of Enginee	ers						Western Mountains, Valleys, and Coast - Version 2.0

Sampling Point: SP-2	20

SOIL							Sampling Point:	SP-20			
	cription: (Desc	ribe to the	depth needed to doo	cument the	indicator of co	nfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)			Type (1)	Loc (2)	Texture		Ren	narks			
	10//20/0	100									
0-6 6-10	10YR 3/2 10YR 3/2	100 95%	10YR 4/4	5		M	sicl sicl				
10-12	10YR 3/2	85%	10YR 4/4	15	_ <u>C</u>	M	sicl				
12-20	10YR 4/2	90%	10YR 4/6	10		M	cl	. —			
								-			
					:						
							• •				
(1)Type: C=	Concentration, [D=Depletio	n, RM=Reduced Matri:	x, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.			
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless otl	herwise no	oted.)		Indicators of Proble	ematic Hydric §	Soils(3).		
	1111				0 . 5 .	(05)			40)		
Histosol (A1)			-	Sandy Redox (S5)				2 cm Muck (A10) Red Parent Material (TF2)			
Histic Epipedon (A2) Black Histic (A3)			-	Stripped Matrix (S6) Loamy Mucky Mineral (F1)				Other (Explain			
Hydrogen Sulfide (A4)			-	(except MLRA 1)			-				
x Depleted Below Dark Surface (A11)			rface (A11)		Loamy Gleyed						
	Thick Dark Su		_		_ Depleted Matr	, ,	(3) indicators of hydrophytic vegetation				
Sandy Mucky Mineral (S1)			x Redox Dark Surface (F6)			and wetland hydrology must be present,					
	Sandy Gleyed	i Matrix (54	·) _		Depleted Dark Surface (F7) Redox Depressions (F8)) unless disturbed or problematic.				
			-		_ Redux Depres	SSIONS (FO)					
Restrictive	layer (if presen	nt):									
Type:											
Type.	-										
Depth (inc	ches):						Hydric Soil Present	? Yes	x	No	
Remarks:											
HYDROI	LOGY										
	drology Indica	tors:									
			quired: (check all that a	apply)				Secondary Inc	dicators (2 or m	nore required)	
					_						

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that	t apply)	Secondary Indicators (2 or more 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 (B8)	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	
Field Observations:		
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	Nox Depth (inches):	Yes x No
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_
Describe Recorded Data (stream gauge, monitoring well, as	erial photos, previous inspections), if available:	
Remarks:		
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017	
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-21	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W	
	Landform (hillslope,	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	none	Slope (%): 0%	
	Subregion (LRR):	LRR A			Lat: 44.	.529142° N	Long:	-123.933778° W Datum: HARN NAD83	
	Soil Map Unit N	lame: Clacka	mas variant silt loam	_		NWI class	sification:	upland	
	Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of v	ear?	Yes:	х	No: (If no explain in remarks)	
	Are Vegetation	-	or Hydrology			_		Circumstances" present? Yes x No	
	Are Vegetation		or Hydrology					explain any answers in Remarks.)	
	Ü				_			ransects, important features, etc.	
Γ	Hydrophytic Vegeta Hydric Soil Present		Yes x Yes			Is the Sample	d Aron withi	n a Watland?	
	Wetland Hydrology		Yes	No No	X	is the Sample	u Area within	Yes No x	
	Remarks:	Plot located on	elevated berm on north si	de of cre	eek				
	VEGETATION	- Use scien	tific names of plan	ıts.					
	Tree Stratum	(Plot size:		1	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
	TICC Otratum	(i lot size.		_'	70 GOVCI	орескоз:	Otatus	Number of Dominant Species	
1. 2.				•				That are OBL, FACW, or FAC: 1 (A)	
3. 4								Total Number of Dominant Species Across All Strata: 1 (B)	
				-					
						= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)	
	Sapling/Shrub Strat	tum (Plot size:		_)					
1.								Prevalence Index worksheet:	
2. 3.				-				Total % Cover of: Multiply by:	
4. 5.								FACW species	
J.				-				FACU speciesx 4 =	
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species x 5 = Column Totals: (A) (B)	
1	Lolium multiflorum	- `		•	100%	ves	FAC	Prevalence Index = B/A =	
2.	Lonum makinorum				100%	yes	FAC	Frevalence index – B/A –	
3. 4.				-				Hydrophytic Vegetation Indicators:	
5. 6.								Rapid Test for Hydrophytic Vegetation x Dominance Test is >50%	
7.								Prevalence Index is <3.0 ⁽¹⁾	
8. 9.				-				Morphological Adaptations (1) (Provide supporting data in Remarks or on a separate sheet)	
10).			-				Wetland Non-Vascular Plants (1)	
11	·			-				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)	
					100%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology	
	Woody Vine Stratur	m (Plot size:)				must be present, unless disturbed or problematic.	
1		_		-				Hydrophytic	
2.								Vegetation	
						= Total Cover		Present? Yes x No No	
	% Bare Ground in F	lark Ctratum				•			
	% bale Glouliu III r	Terb Stratum		-					
	Remarks:								
110	S Army Corps of Enginee	ere						Western Mountains, Valleys, and Coast – Version 2.0	
2	, corps of Lingillet								

Sampling Point: S	SP-21
Camping Font.	OI -Z I

SOIL							Camping Font.	01 -21			
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks		
0-10	10YR 3/2	100					sicl				
10-13	10YR 3/2	95%	10YR 4/4	5	С	М	sicl				
13-19	10YR 4/2	90%	10YR 4/6	10	С	M	cl				
							.				
			-		-		· 				
	· ·						·				
							·				
(1)Type: C=	Concentration, I	D=Depletio	n, RM=Reduced Matrix	c, CS=Cov	ered of Coated S	and Grains. (2)	Location: PL=Pore Lining	g, M=Matrix.			
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	nerwise no	oted.)		Indicators of Problem	natic Hydric Soils(3).	_		
						(0.5)		0 14 1 (140)			
	Histosol (A1)	on (A2)	=	Sandy Redox (S5) Stripped Matrix (S6)			2 cm Muck (A10) Red Parent Material (TF2)				
Histic Epipedon (A2) Black Histic (A3)			_		Loamy Mucky			Other (Explain in Rema			
Hydrogen Sulfide (A4)			<u>-</u> _		(except MLRA	\ 1)			-,		
	Depleted Belo				Loamy Gleyed						
	Thick Dark Su Sandy Mucky			Depleted Matrix (F3) Redox Dark Surface (F6)			(3) indicators of hydrophytic vegetation and wetland hydrology must be present,				
	Sandy Gleyed				Depleted Dark		unless disturbed or p				
	,,	(2)	, 		Redox Depres						
Restrictive	layer (if preser	nt):									
Type:											
Depth (inc	ches):						Hydric Soil Present?	Yes	No	;	x
Remarks:											
HYDROL	_OGY										
	drology Indica	tors:									

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that	apply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)			
Field Observations:					
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?			
Water Table Present? Yes	Nox Depth (inches):	Yes No x			
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_			
Describe Recorded Data (stream gauge, monitoring well, aer	rial photos, previous inspections), if available:	_ I			
Remarks:					
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0			

Proje	ect/Site:	Airport Industria	ıl		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
Appli	cant/Owner:	City of Lebanor	l .		State:	OR		Sampling Point:	SP-22	
Inves	stigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W		
Land	form (hillslope,	terrace, etc.):	terrace Le	ocal relie	ef (concave, cor	nvex, none):	none		Slope (%):	0%
Subre	egion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HAF	RN NAD83
	Soil Map Unit N		mas variant silt loam	_		NWI class	•	upland		
	·		on the site typical for this	time of v	oar?	•	X		/lf r	o explain in remarks)
	•	•	,,			_			-	
			or Hydrology					Circumstances" present?	Yes <u>x</u>	No
Are V	/egetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Rema	arks.)	
SUM	MMARY OF	FINDINGS	- Attach site map	show	ing sampl	ing point loc	ations, t	ransects, important	features, etc	•
	ophytic Vegeta		Yes x Yes x	No No		Is the Sample	d Aroa within	n a Wotland?		
	and Hydrology		Yes X	No		is the Sample	u Alea Willin		sx	No
Rema	arks:	Plot located in v	vetland near south end of	TL 2802	2					
VFC	SETATION	- Use scien	tific names of plar	nts						
			tine names of plan	110.	Absolute	Dominant	Indicator	Dominance Test Works	sheet:	
Tree	Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Spe	ecies	
1				-				_ That are OBL, FACW, or		1(A)
2. 3.				_				_ Total Number of Domina	int	
4.				- -				Species Across All Strata	a:	1(B)
						= Total Cover		Percent of Dominant Spe		
Sapli	ng/Shrub Strat	um (Plot size:)				That are OBL, FACW, or	· FAC:	100(A/B)
	J			-′						
1. 2.				=				Total % Cover of:	sneet:	Multiply by:
3.				- -				OBL species FACW species	x 1 x 2	
5.				-				FAC species		- =
						= Total Cover		FACU species UPL species		= <u></u> =
Herb	Stratum	(Plot size:	5 ft dia	_)		•		Column Totals:	(A)	
1. <i>Loliui</i>	m multiflorum				90%	yes	FAC	Prevalence Index = B/A :	=	
2.				- -				_		
4.				- -				Hydrophytic Vegetation		
5 6.				=					for Hydrophytic Ve Test is >50%	getation
7.				-					Index is <3.0 ⁽¹⁾	Provide supporting
8 9				- -				data in Rem	narks or on a separ	rate sheet)
10 11.				-					n-Vascular Plants ⁽ Hydrophytic Vege	
				_						, , ,
					90%	= Total Cover				d wetland hydrology bed or problematic.
Wood	dy Vine Stratur	n (Plot size:		_)						·
1.								Hydrophytic		
2.				=				Vegetation	Voo v	No
						= Total Cover		Present?	Yes <u>x</u>	No
% Ba	are Ground in F	lerb Stratum	10							
				-						
Rema	arks:									
IIS Army	Corps of Enginee	are						Wootors Mar	intains, Valleys, and (Coast – Version 2.0
JULY C	- sipo oi Lilyinet							**E3(E111 MOU	, runcys, and t	

Sampling Point:	SP-22
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loou.							Sampling Point:	SP-22			
SOIL Profile Dos	crintion: (Dosc	ribo to the	depth needed to doc	umont the	indicator of co	onfirm the above	aco of indicators)				
Fiolile Des	cription. (Desc	inde to the	deptii needed to doc	ument me	s indicator or co	onnin the abser	ice of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks			
0-8	10YR 3/2	100					sicl				
8-12	10YR 3/2	95%	10YR 4/4	5		M	sicl				
12-20	10YR 3/2	90%	10YR 4/4	10	С	М	sicl				
								-			
								-			
(4) T O	0	D. Danielian	DM Deduced Metel			2	and an Dispersion	an M. Matrix			
(1)Type: C=	Concentration, i	D=Depletion	i, Rivi=Reduced Matrix	(, CS=C0V	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lini	ng, m=matrix.			
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	nerwise no	oted.)		Indicators of Proble	ematic Hydric Soils(3).			
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)			
	Histic Epipedo	on (A2)	<u>-</u> -		Stripped Matr	` '	Red Parent Material (TF2)				
	Black Histic (A	,	=		_ Loamy Mucky			Other (Explain in Remarks)			
	_ , _	Hydrogen Sulfide (A4) (except MLRA 1) Parketed Relaw Park Surface (A11) Learny Claved Matrix (F2)									
	Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Depleted Matrix (F3)						(3) indicators of hy	drophytic vegetation			
	Sandy Mucky Mineral (S1)			x Redox Dark Surface (F6)			and wetland hydrology must be present,				
	Sandy Gleyed	d Matrix (S4)	_			k Surface (F7)	unless disturbed or problematic.				
			=		_ Redox Depre	essions (F8)					
Restrictive	layer (if preser	nt):									
Type:											
Depth (inc	ches):						Hydric Soil Present	?? Yes <u>x</u> No			
Remarks:											
HYDROI	_OGY										
	drology Indica		unionale (ale a ale all the		·			O a considerate la disease (O anno ana manina di)			
Primary Ind	icators (minimur	n of one req	uired: (check all that a	ipply)				Secondary Indicators (2 or more required)			

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that a	apply)	Secondary Indicators (2 or more 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 (B8)	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) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			
Field Observations:					
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?			
Water Table Present? Yes	Nox Depth (inches):	Yesx No			
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_			
Describe Recorded Data (stream gauge, monitoring well, aer	ial photos, previous inspections), if available:				
Remarks:					
US Army Corps of Engineers		Western Mountains. Vallevs and Coast - Version 2.0			

Project/Site:	Airport Industria	al		_City/County:	Lebanon/Linn		Sampling Date :	8/17/2017		
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-23		
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W			
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%	
Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HA	ARN NAD83	
Soil Map Unit N	Name: Clacka	mas variant silt loam			NWI class	sification:	upland			
Are Climatic / hydro	ologic conditions	on the site typical for this t	time of y	/ear?	Yes:	х	No:	(If	no explain in rema	arks)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes	x No	
Are Vegetation		or Hydrology		_		(If needed, e	explain any answers in Rem	arks.)		
SUMMARY O							ransects, important		C.	
Hydrophytic Vegeta		Yes x	No	gp-	9					
Hydric Soil Presen Wetland Hydrology	t?	Yes Yes	No No	<u>x</u> x	Is the Sample	d Area withi			No	v
Remarks:		elevated berm on north si	-				16:	S		Х
Remarks:	Plot located on	elevated berm on north si	de of cre	еек						
VEGETATION	N - Use scien	tific names of plar	ıts.	Absolute	Dominant	Indicator	Dominance Test Work	sheet:		
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Sp	ooioo		
1			_				That are OBL, FACW, o		1((A)
_			_				Total Number of Domina	ant		
4.			=				Species Across All Strat	a:	((B)
					= Total Cover		Percent of Dominant Sp			
Sapling/Shrub Stra	atum (Plot size:)				That are OBL, FACW, o	r FAC:	((A/B)
1	_ `						Prevalence Index work	ehoot:		
2.			-				Total % Cover of:		Multiply by:	
3. 4.			=				OBL species FACW species		1 = 2 =	
5.			-				FAC species FACU species		3 = 4 =	
					= Total Cover		UPL species	x	5 =	
Herb Stratum	_ (Plot size:	5 ft dia	_)				Column Totals:	(A)((B)
Lolium multiflorum 2.			=	90%	yes	FAC	Prevalence Index = B/A	= <u> </u>		
3.			- -				_			
4 5			-				Hydrophytic Vegetatio Rapid Test	n Indicators: for Hydrophytic V	'egetation	
6. 7.			-					Test is >50% Index is <3.0 ⁽¹⁾		
8.			= =				Morphologi	cal Adaptations (1)	(Provide supporti	ng
10			-				Wetland No	narks or on a sep on-Vascular Plant	s ⁽¹⁾	
11			-				Problemation Problemation	c Hydrophytic Veg	getation ⁽¹⁾ (Explain	1)
				90%	= Total Cover		, ,	•	nd wetland hydrolourbed or problema	
Woody Vine Stratu	ım (Plot size:)				must be pre	esent, uniess dist	inded of problema	IIIC.
1.							Hydrophytic			
2.			-				Vegetation Present?	Voo	v No	
					= Total Cover		i resent:	Yes	x No_	
% Bare Ground in	Herb Stratum	_ 10	_							
Remarks:		-								
remane.										
US Army Corps of Engine	eers						Western Mou	untains, Valleys, and	d Coast – Version 2.0	o .

Sampling Point:	SP-23	
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SOIL										
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	e indicator of co	onfirm the abse	nce of indicators.)			
Depth	Matrix		Redox Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks	
0-10	10YR 3/2	100					sicl			
10-16	10YR 3/2	95%	10YR 4/6	5		M	sicl			
16-20	10YR 3/2	90%	10YR 4/6	10		M	sicl			
							-			
	- -									
							 			
(1)Type: C=	:Concentration	D=Denletio	n RM=Reduced Matrix	CS=Cov	ered of Coated S	Sand Grains (2)	Location: PL=Pore Lining, N	Λ=Matrix		
(1)13pc. 0	Corrochitation,	B Bepietto	ii, raw raddodd wddiix	, 00 001	crea or ocatea c	Sana Gramo. (2)	Location: 1 L 1 ore Liming, it	Width.	_	
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Problemat	ic Hydric Soils(3).		
•		•								
	Histosol (A1)		_		Sandy Redox			m Muck (A10)		
	Histic Epipedo		_	Stripped Mati				d Parent Material (TF		
	Black Histic (A		_		Loamy Mucky		Oti	Other (Explain in Remarks)		
	Hydrogen Sul Depleted Belo		food (A11)		(except MLR/					
	Thick Dark Su				Loamy Gleye Depleted Mat		(3) indicators of hydropl	ovtic vegetation		
	Sandy Mucky				Redox Dark S		and wetland hydrology			
	Sandy Gleyed					k Surface (F7)	unless disturbed or prol			
	_		′		Redox Depre					
			_		<u> </u>	. ,				
Restrictive	layer (if preser	nt):								
Tuno										
Type:	-									
Depth (inc	ches):						Hydric Soil Present?	Yes	No	x
	_						,			
Remarks:										

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all the	uat apply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)			
Field Observations:					
Surface Water Present? Yes	No x Depth (inches):	Wetland Hydrology Present?			
Water Table Present? Yes	Nox Depth (inches):	Yes No x			
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_			
Describe Recorded Data (stream gauge, monitoring well,	aerial photos, previous inspections), if available:				
Remarks:					
US Army Corps of Engineers		Western Mountains, Vallevs and Coast - Version 2.0			

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date: 8/17/2017
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-24
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	none	Slope (%): 0%
Subregion (LRR):	LRR A			Lat: 44.	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	Name: Clacka	mas variant silt loam			NWI class	sification:	upland
•		on the site typical for this t	time of v	rear?	•	х	
Are Vegetation	-	or Hydrology			_		
•							· —
Are Vegetation	·	or Hydrology		_			explain any answers in Remarks.)
SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampli	ing point lo	cations, t	ransects, important features, etc.
Hydrophytic Vegeta Hydric Soil Present		Yes x Yes	No No	x	Is the Sample	d Area withi	n a Wetland?
Wetland Hydrology	Present?	Yes	No	X			Yes Nox
Remarks:	Plot located on	north side of wetland corri	idor that	straddles creek	ζ.		
VEGETATION	I - Use scien	tific names of plar	ıts.				
Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:
	•		-′		·		Number of Dominant Species
2.			-				That are OBL, FACW, or FAC: 1 (A)
3			-		·		Total Number of Dominant Species Across All Strata: 1 (B)
			-				
					= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stra	tum (Plot size:		_)				
1			_				Prevalence Index worksheet:
2. 3.			=				Total % Cover of: Multiply by:
4.			-				FACW species x 2 =
5			_		·		FAC species x 3 = FACU species x 4 =
Herb Stratum	(Plot size:	E ft dio	,		= Total Cover		UPL species x 5 =
Helb Stratum	(FIOUSIZE.	5 ft dia	_'				
Lolium multiflorum 2.			-	100%	yes	FAC	Prevalence Index = B/A =
3.			- -				
4. 5.			-				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
6. 7.			-				xDominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
8.			- -				Morphological Adaptations (1) (Provide supporting
9. 10.			_		·		data in Remarks or on a separate sheet) Wetland Non-Vascular Plants (1)
11.			_				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				100%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
Woody Vine Stratu	ım (Plot size:)				must be present, unless disturbed or problematic.
- voody viiio oli dia	<u></u> . (1.101.01201		_′				
1. 2.			-				Hydrophytic Vegetation
			=		= Total Cover		Present? Yes x No No
					- TOTAL COVER		
% Bare Ground in	Herb Stratum		=				
Remarks:							•
US Army Corps of Engine	ers						Western Mountains, Valleys, and Coast - Version 2.0

SOIL											
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	e indicator of co	onfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks		
0-11	10YR 3/2	100					sicl				
11-14	10YR 3/2	97%	10YR 3/4	3	C	М	sicl				
14-20	10YR 3/2	95%	10YR 4/4	5	С	М	sicl				
	- 		- -								
	 -										
(1)Type: C=	Concentration, I	D=Depletior	n, RM=Reduced Matrix	, CS=Cov	ered of Coated S	Sand Grains. (2)	_ocation: PL=Pore Lining	g, M=Matrix.			
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Problem	matic Hydric Soils(3).			
	Histosol (A1)				Sandy Redox	(95)		2 cm Muck (A10)			
	Histic Epipedo	nn (A2)	=	Stripped Matrix (S6)			Red Parent Material (TF2)				
		Black Histic (A3)			Loamy Mucky			Other (Explain in Remarks)			
	Hydrogen Sul		=		(except MLR				-,		
	Depleted Belo	ow Dark Sur	face (A11)		Loamy Gleye	d Matrix (F2)					
	Thick Dark Su				Depleted Mat		(3) indicators of hydronical				
	Sandy Mucky				Redox Dark S		and wetland hydrolo				
	Sandy Gleyed	Matrix (S4)	_			k Surface (F7)	unless disturbed or p	oroblematic.			
			_		_ Redox Depre	ssions (F8)					
Restrictive	layer (if preser	nt):									
Type:											
Depth (inc	phoo):						Hydric Soil Present?	Yes	,	No	x
Deptil (int							Tryunc Jon Fresent:	163	_ '	1 0	^
Remarks:											
HADDVI	OCV.										

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that	apply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)			
Field Observations:					
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?			
Water Table Present? Yes	Nox Depth (inches):	Yes No x			
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	_			
Describe Recorded Data (stream gauge, monitoring well, aer	rial photos, previous inspections), if available:	_ I			
Remarks:					
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0			

Project/Site:	Airport Industrial		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
Applicant/Owner:	City of Lebanon		State:	OR		Sampling Point:	SP-25	
Investigator(s):	A. Martin		Section, Town	iship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.): terrace	Local relie	ef (concave, con	nvex, none):	none		Slope (%):	6%
Subregion (LRR):	LRR A		Lat: <u>44</u>	.529142° N	Long:	-123.933778° W	Datum: HARN NA	AD83
Soil Map Unit N	Name: Clackamas variant silt loam			NWI class	sification:	upland		
Are Climatic / hydro	ologic conditions on the site typical for	this time of y	ear?	Yes:	Х	No:	(If no expl	lain in remarks)
Are Vegetation	Soilor Hydrology	/	Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes x	No
Are Vegetation	Soilor Hydrology	/	Naturally prob	lematic?	(If needed, e	explain any answers in Rem	narks.)	
SUMMARY O	F FINDINGS - Attach site n	nap show	ing sampl	ing point loc	ations, t	ransects, important	t features, etc.	
Hydrophytic Vegeta	ation Present? Yes	x No					_	
Hydric Soil Present Wetland Hydrology		x No		Is the Sample	d Area withi		s x	No
Remarks:	Plot located in wetland bordering north	th side of cre	ek					
VEGETATION	N - Use scientific names of p	lants.						
		,	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dominant Sp	pecies	
1						_ That are OBL, FACW, o	r FAC:	1 (A)
						Total Number of Domina Species Across All Strat		1 (P)
4.						_ `	_	(B)
				= Total Cover		Percent of Dominant Sp That are OBL, FACW, o		100 (A/B)
Sapling/Shrub Stra	atum (Plot size:)						
1						Prevalence Index work		
3.		_				Total % Cover of: OBL species	x 1 =	ıltiply by:
4. 5.						FACW species FAC species	x 2 = x 3 =	
				= Total Cover		FACU species UPL species	x 4 =x 5 =	
Herb Stratum	(Plot size: 5 ft dia)		- Total Gover		Column Totals:	(A)	(B)
Lolium multiflorum			100%	yes	FAC	Prevalence Index = B/A	.=	
2. 3.						_		
4.						Hydrophytic Vegetatio		
6.						x Dominance	for Hydrophytic Vegetation Test is >50%	וונ
7. 8.				· ——			e Index is <3.0 ⁽¹⁾ ical Adaptations ⁽¹⁾ (Provic	de supporting
9. 10.							marks or on a separate sh on-Vascular Plants ⁽¹⁾	neet)
11.		_					c Hydrophytic Vegetation	(1) (Explain)
			100%	= Total Cover			ors of hydric soil and wetla	
Woody Vine Stratu	ım (Plot size:)				must be pro	esent, unless disturbed or	r problematic.
1						Hydrophytic		
2.						Vegetation		
				= Total Cover		Present?	Yes <u>x</u>	No
% Bare Ground in	Herb Stratum							
Remarks:								
remarks.								
US Army Corps of Engine	eers					Western Mo	untains, Valleys, and Coast -	- Version 2.0

	Matrix		Redox Features							
Depth (Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Rema	ırks
0	40VD 0/0	400			<u> </u>		-1-1			
-8 -14	10YR 3/2 10YR 3/2	100 95%	10YR 4/4	5		M	sicl			
4-20	10YR 3/2	90%	10YR 4/4	10	- C	M	sicl			
					- -					
							. ———			
)Type: C=	:Concentration, [D=Depletion	n, RM=Reduced Matrix	, CS=Cove	ered of Coated S	and Grains. (2)	Location: PL=Pore Linir	ng, M=Matrix.		
/ /!	·	'	•			` `		<u> </u>		
ydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	erwise no	ted.)		Indicators of Proble	matic Hydric So	ls(3).	
	Historal (A1)				Condy Dodoy	(CE)		2 om Musik (A10	`	
	Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6)					2 cm Muck (A10 Red Parent Mat				
		Black Histic (A3)			Loamy Mucky			Other (Explain in Remarks)		
	Hydrogen Sulf	,	_		(except MLRA			(=	, , , , , , , , , , , , , , , , , , , ,	
	Depleted Belo				Loamy Gleyed					
	Thick Dark Su				Depleted Mati		(3) indicators of hyd			
	Sandy Mucky Mineral (S1) x Sandy Gleyed Matrix (S4)		x Redox Dark Surface (F6) Depleted Dark Surface (F7)			and wetland hydrology must be present, unless disturbed or problematic.				
	Sandy Gleyed	Matrix (54)	_		Redox Depres		uniess disturbed or	problematic.		
			_		_ Redox Depres	3010110 (1 0)				
estrictive	layer (if presen	t):								
_										
Type:										
Depth (inc	shee):						Hydric Soil Present	? Yes	~	No
Deptil (inc							l liyane son Fresent			110
Remarks:										

Wetland Hydrology Indicators: Primary Indicators (minimum of one re	equired: (check all that apply)	<u>—</u>		Secondary I	ndicators (2 or	more 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 Ac	s) erial imagery (B7)	1,2,4A, ar Salt Crust (I Aquatic Invo Hydrogen S Oxidized RI Presence or Recent iron Stunted or S	,	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)			
Field Observations:							
Surface Water Present? You	es No	xx	Depth (inches):	Wetland Hy	drology Prese	ent?	
Water Table Present? Yes	es No	ox	Depth (inches):	Yes	x	No	
Saturation Present? You (includes capillary fringe)	es No	x	Depth (inches):	-			
Describe Recorded Data (stream gau	ge, monitoring well, aerial photos, p	previous inspe	ctions), if available:				
Remarks:							
IIS Army Corps of Engineers				Western Mou	ntaine Valleve ar	nd Coast - Version 2 0	

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-26	
Investigator(s):	A. Martin			_Section, Town	ship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.):	terrace Lo	ocal reli	ef (concave, con	nvex, none):	none		Slope (%):	5%
Subregion (LRR):	LRR A		_	Lat:44	.529142° N	Long:	-123.933778° W	Datum: HA	ARN NAD83
Soil Map Unit N	Name: Clacka	ımas variant silt loam			NWI class	sification:	upland		
Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of y	year?	Yes:	х	No:	(If	no explain in remarks)
Are Vegetation	Soil	or Hydrology		_Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes	x No
Are Vegetation	Soil	or Hydrology		_Naturally prob	lematic?	(If needed, e	explain any answers in Rem	arks.)	
SUMMARY O	F FINDINGS	- Attach site map	shov	wing sampl	ing point loc	ations, t	ransects, important	features, etc	3.
Hydrophytic Vegeta		Yes x	No						
Hydric Soil Presen Wetland Hydrology	t?	Yes Yes	No No	X	Is the Sample	d Area withi		S	No x
Remarks:		south end of TL 2802 on n	-		land				
remano.	Tiot located at	500an end 61 12 2562 611 11	orar old	e or oreek iii up	idild				
VECETATION	l llee eeiem	tific names of plan	4-						
VEGETATION	v - Ose scien	itific names of plar	ııs.	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	_
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Sp	ecies	
1.			-				That are OBL, FACW, o	r FAC:	1 (A)
			-				Total Number of Domina	ant	
4			-				_ Species Across All Strat	a:	1(B)
				-	= Total Cover		Percent of Dominant Sp That are OBL, FACW, o		100 (A/B)
Sapling/Shrub Stra	atum (Plot size:		_)				Triat are OBL, FACW, 0	I FAC.	100(A/B)
1.							Prevalence Index work	sheet:	
2.			-				Total % Cover of: OBL species	x 1	Multiply by:
4.			- -				FACW species	x 2	2 =
5			-	-	·		FAC species FACU species	x 3	3 = 1 =
Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:	x 5	
				4000/		F40			(
Lolium multiflorum Lolium multiflorum	<u>'</u>		-	100%	yes	FAC	Prevalence Index = B/A	_	
3. 4.			-		· 		Hydrophytic Vegetatio	n Indicators:	
5.			-				Rapid Test	for Hydrophytic Vertest is >50%	egetation
7.			-				Prevalence	Index is <3.0 ⁽¹⁾	
8. 9.			-				data in Rer	narks or on a sepa	
10. 11			•					on-Vascular Plants	s ⁽¹⁾ letation ⁽¹⁾ (Explain)
···-			-					, , , ,	,
				100%	= Total Cover			•	nd wetland hydrology urbed or problematic.
Woody Vine Stratu	ım (Plot size:	-	_)						
1			_				Hydrophytic		
2			-				Vegetation Present?	Yes:	x No
					= Total Cover				
% Bare Ground in	Herb Stratum		=						
Remarks:									
U0 A 0								and the second second	Occart Marin 25
US Army Corps of Engine	eers						Western Mou	untains, valleys, and	Coast – Version 2.0

Sampling Point:	SP-26

SOIL							<u></u>	•			
Profile Des	cription: (Desc	ribe to the o	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Type (1) Loc (2) Texture			Remarks		
0-9	10YR 3/2	100					sicl				
9-20	10YR 3/2	95%	10YR 3/4	5		М	sicl				
	·										
							· ——— -				
							· 				
			·								
(1)Type: C=	Concentration, [D=Depletion	, RM=Reduced Matrix	x, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lining,	, M=Matrix.	_		
Hydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Problem	atic Hydric Soils(3).	_		
	Histosol (A1)				Sandy Redox	(95)	2	2 cm Muck (A10)			
Histic Epipedon (A2)			_	Stripped Matrix (S6)				Red Parent Material (TF	2)		
Black Histic (A3)			_	Loamy Mucky Mineral (F1)			Other (Explain in Remarks)				
Hydrogen Sulfide (A4)				(except MLRA							
Depleted Below Dark Surface (A11)			ace (A11)		_ Loamy Gleyer						
Thick Dark Surface (A12)			_	Depleted Matrix (F3) Redox Dark Surface (F6)			(3) indicators of hydro				
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)			Depleted Dark Surface (F7)			and wetland hydrology must be present, unless disturbed or problematic.					
Candy Cloyed Matrix (C1)		Redox Depressions (F8)		unicoo diotarbea or pr	obicinatio.						
Restrictive	layer (if presen	nt):									
Type:											
Depth (inc	ches):						Hydric Soil Present?	Yes	No _	х	
Remarks:											
HYDROL	_OGY										

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that ap	pply)	_	Secondary Indicators (2 or more 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 (B8)		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) Frost-Heave Hummocks (D7)			
Field Observations:						
Surface Water Present? Yes	No	x Depth (inches):	Wetland Hydrology Present?			
Water Table Present? Yes	No	x Depth (inches):	Yes Nox			
Saturation Present? Yes (includes capillary fringe)	No	x Depth (inches):	-			
Describe Recorded Data (stream gauge, monitoring well, aeria	l photos, p	previous inspections), if available:				
Remarks:						
US Army Corps of Engineers			Western Mountains, Valleys and Coast - Version 2.0			

Project/Site:	Airport Industrial	City/County	y: Lebanon/Linn		Sampling Date :	8/17/2017
Applicant/Owner:	City of Lebanon	Sta	te: OR		Sampling Point:	SP-27
Investigator(s):	A. Martin	Section, To	ownship, Range:	16, T12S, R0	02W	
Landform (hillslope	e, terrace, etc.): terrace L	ocal relief (concave,	convex, none):	concave		Slope (%):0%
Subregion (LRR):	LRR A	Lat:	44.529142° N	Long:	-123.933778° W	Datum: HARN NAD83
Soil Map Unit N	Name: Dayton silt loam		NWI class	sification:	upland	
Are Climatic / hydro	ologic conditions on the site typical for this	time of year?	Yes:	x	No:	(If no explain in remarks)
Are Vegetation	Soil or Hydrology	Significantl	y disturbed?	Are"Normal	Circumstances" present?	Yes <u>x</u> No
Are Vegetation	Soil or Hydrology	Naturally p	roblematic?	(If needed, e	explain any answers in Rem	arks.)
SUMMARY O	F FINDINGS - Attach site map	p showing sam	pling point lo	cations, ti	ransects, important	features, etc.
Hydrophytic Vegeta	ation Present? Yes x	No				
Hydric Soil Presen Wetland Hydrology		No x No x	Is the Sample	ed Area within		s x No
Remarks:	Plot located in wetland area on north side	e of creek.				
VEGETATION	I - Use scientific names of pla	nts				
		Absolute		Indicator	Dominance Test Works	sheet:
Tree Stratum	(Plot size:	_) % Cove	r Species?	Status	Number of Dominant Sp	ecies
1					_ That are OBL, FACW, or	r FAC:1(A)
_					Total Number of Domina	
4					Species Across All Strate	a: <u>1</u> (B)
			= Total Cover		Percent of Dominant Spo That are OBL, FACW, or	
Sapling/Shrub Stra	tum (Plot size:	_)				
1					Prevalence Index work	
2. 3.					Total % Cover of: OBL species	x 1 = Multiply by:
4. 5				-	FACW species FAC species	x 2 =
·		_			FACU species	x 4 =
Herb Stratum	(Plot size: 5 ft dia.)	= Total Cover		UPL species Column Totals:	x 5 =(B)
Lolium multiflorum		95%			Prevalence Index = B/A	=
2.					-	
4.					Hydrophytic Vegetation	
5. 6.					x Dominance	for Hydrophytic Vegetation Test is >50%
7. 8.						Index is <3.0 ⁽¹⁾ cal Adaptations ⁽¹⁾ (Provide supporting
9.		<u> </u>				narks or on a separate sheet) on-Vascular Plants (1)
11.						C Hydrophytic Vegetation ⁽¹⁾ (Explain)
		95%	= Total Cover		(1) Indicato	rs of hydric soil and wetland hydrology
Woody Vine Stratu	ım (Plot size:)			must be pre	esent, unless disturbed or problematic.
vvoody vine on and	1111 (1 101 0)20.	_'				
2.		<u> </u>			Hydrophytic Vegetation	
			= Total Cover		Present?	Yes x No No
% Bare Ground in	Herb Stratum 5		_			
	Tiolo Giratum	_				
Remarks:						
US Army Corps of Engine	eers				Western Mou	untains, Valleys, and Coast – Version 2.0

Sampling Point: S	SP-27
Camping Form.	01 -27

(Inches)	Color (moist)		Redox Features					
_	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
	10YR 3/2	98	10YR 4/4	2	С	PL	sicl	2% OR
10	10YR 3/2	95%	10YR 4/4	5	_ c	M	sicl	270 010
-16	10YR 3/2	90%	10YR 4/4	10		M	sicl	-
i-20	10YR 4/2	95%	10YR 5/4	5	С	М	cl	
			n, RM=Reduced Matrix			Sand Grains. (2)		
dric Soil	l Indicators: (Ap	oplicable to	o all LRRs, unless oth	nerwise no	oted.)		Indicators of Probl	lematic Hydric Soils(3).
	Histosol (A1)				Sandy Redox	(S5)	2 cm Muck (A10)	
	Histic Epipedo	on (A2)	-		Stripped Matr			Red Parent Material (TF2)
		Black Histic (A3)			Loamy Mucky Mineral (F1)		-	Other (Explain in Remarks)
	Hydrogen Sulf	fide (A4)	_	(except MLRA 1)				
	Depleted Belo	w Dark Su	rface (A11)		Loamy Gleyed Matrix (F2)			
	Thick Dark Su	rface (A12) ' '		Depleted Mat	rix (F3)	(3) indicators of hy	ydrophytic vegetation
	Sandy Mucky	Mineral (S	1)	Х			and wetland hydro	ology must be present,
	Sandy Gleyed	Matrix (S4	-		Depleted Dar	k Surface (F7)	unless disturbed of	or problematic.
	-		-		Redox Depre	ssions (F8)		
estrictive	layer (if preser	nt):						
Туре:								
Depth (inc	ches):						Hydric Soil Presen	nt? Yes <u>x</u> No
emarks:							I.	

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one requi	red: (check all that apply)	<u> </u>		Secondary I	ndicators (2 or r	more 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 Sparsely Vegetated Concav	· · · ·	1,2,4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent iron Stunted or S	,	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Field Observations:						
Surface Water Present? Yes	No	X	Depth (inches):	Wetland Hy	drology Presei	nt?
Water Table Present? Yes	No	x	Depth (inches):	Yes	x	No
Saturation Present? Yes _(includes capillary fringe)	No	x	Depth (inches):	-		
Describe Recorded Data (stream gauge, I	monitoring well, aerial photos, p	revious inspe	ections), if available:			
Remarks:						
US Army Corps of Engineers				Western Mour	ntains. Valleys an	d Coast - Version 2.0

Project/Site:	City of Lebanon	1		_City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	,
Applicant/Owner:	Airport Industria	al		State:	OR		Sampling Point:	SP-28	
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W		
Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	concave		_ Slope (%):	0%
Subregion (LRR):	LRR A		_	Lat:44	.529142° N	Long:	-123.933778° W	Datum:	HARN NAD83
Soil Map Unit N	lame: <u>Clacka</u>	mas variant silt loam			NWI class	sification:	upland		
Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of y	/ear?	Yes:	Х	No:	_	(If no explain in remarks)
Are Vegetation	Soil	or Hydrology		_Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes	sx No
Are Vegetation	Soil	or Hydrology		_Naturally prob	lematic?	(If needed, e	explain any answers in Rem	arks.)	
SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampl	ing point loc	ations, t	ransects, important	features	, etc.
Hydrophytic Vegeta	ation Present?	Yes x	No						
Hydric Soil Present Wetland Hydrology		Yes x Yes x	No No		Is the Sample	d Area withi		s x	No
Remarks:		south side of creek	-						<u>-</u>
VEGETATION	l - lleo ecion	tific names of plan	ıte						
		the hames of plan		Absolute	Dominant	Indicator	Dominance Test Works	sheet:	
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Sp	ecies	
1.			-				That are OBL, FACW, o	r FAC:	(A)
_			_				Total Number of Domina		
4			-				Species Across All Strat	a:	(B)
					= Total Cover		Percent of Dominant Sp That are OBL, FACW, o		100 (A/B)
Sapling/Shrub Stra	tum (Plot size:)						
1			_				Prevalence Index work	sheet:	
2. 3.			-				Total % Cover of: OBL species		Multiply by: _x 1 =
4.			-				FACW species FAC species	-	x 2 = x 3 =
J			•				FACU species		x 4 =
Herb Stratum	_ (Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:		_x 5 =(B)
1. Lolium multiflorum				80%	yes	FAC	Prevalence Index = B/A	=	
2. Schedonorus arund	dinaceus		- -	20	yes	FAC	- -		
3 4			- -				Hydrophytic Vegetatio		
5 6.			_		·			for Hydrophy Test is >50%	tic Vegetation 6
7. 8.			-				_	Index is <3.0	ns ⁽¹⁾ (Provide supporting
9.			-				data in Ren	narks or on a	separate sheet)
10. 11.			-				_	on-Vascular F c Hydrophytic	Plants (*) Vegetation ⁽¹⁾ (Explain)
				100%	= Total Cover		(1) Indicato	rs of hydric s	oil and wetland hydrology
Woody Vine Stratu	m (Plot size:		`						disturbed or problematic.
woody ville Stratu	III (FIOL SIZE.		_)						
1. 2.			-				Hydrophytic Vegetation		
			-		= Total Cover		Present?	Yes	s_x_ No
0/ D	Heat Of the				. 5.6. 5046				
% Bare Ground in I	Herb Stratum	-	-						
Remarks:			_						
US Army Corps of Engine	ers						Western Mou	untains, Valleys	, and Coast – Version 2.0

Sampling Point:	SP-28

SOIL											
Profile Des	cription: (Desci	ribe to the o	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Rem	narks	
0-4	10YR 3/2	100					sicl				
4-8	10YR 3/2	95%	10YR 4/4	5		M	sicl				
8-18	10YR 3/2	90%	10YR 4/6	10	С	М	sicl				
							-				
	·		· ——— –				.				
			·								
(1)Type: C=	Concentration, [D=Depletion	, RM=Reduced Matrix	, CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lining	g, M=Matrix.			
Hydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Problem	natic Hydric S	oils(3).		
•		•	,		•			-			
	Histosol (A1)	(4.0)	_	Sandy Redox (S5)				2 cm Muck (A1			
	Histic Epipedon (A2) Black Histic (A3)		_	Stripped Matrix (S6) Loamy Mucky Mineral (F1)			Red Parent Ma				
	Hydrogen Sulf		-		(except MLRA 1)			Other (Explain in Remarks)			
	Depleted Belo	w Dark Surf			Loamy Gleye						
	Thick Dark Su				Depleted Mat		(3) indicators of hydr				
	Sandy Mucky			Х	_ Redox Dark S		and wetland hydrolo		sent,		
	Sandy Gleyed	Matrix (54)	_ _		Redox Depre	k Surface (F7) essions (F8)	unless disturbed or p	problematic.			
Restrictive	layer (if presen	it):									
Type:											
Depth (inc	ches):						Hydric Soil Present?	Yes _	x	No	
Remarks:											
											,
HYDROI	OGY										
	drology Indica	tors:									

Wetland Hydrology Indicators: Primary Indicators (minimum of one required:	(check all that apply)	Secondary Indicators (2 or more 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 images	· · · · · · · · · · · · · · · · ·	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	No x Depth (inches):	Yes x No
Saturation Present? Yes(includes capillary fringe)	Nox Depth (inches):	
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previous inspections), if available:	
Remarks:		
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-29	
	Investigator(s):	A. Martin			_Section, Town	ship, Range:	16, T12S, R	02W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: <u>44</u>	.529142° N	Long:	-123.933778° W	Datum: HARN	NAD83
	Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	sification:	upland		
	Are Climatic / hydro	ologic conditions	on the site typical for this	time of	year?	Yes:	x	No:	(If no e	xplain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes x	No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Rem	narks.)	
	SUMMARY OF		·		_		ations tr	ransects, important	features, etc.	
	Hydrophytic Vegeta		Yes x	No						
	Hydric Soil Present Wetland Hydrology	?	Yes Yes	No No	x	Is the Sample	d Area withi			No x
	Remarks:		slightly elevated terrace o	•				16:	S	No <u>x</u>
	Remarks.	Fiot located on	slightly elevated terrace of	ii Soulii	Side of Creek					
	\/=0==4=10\/									
	VEGETATION	- Use scien	tific names of plan	ts.	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status	 Number of Dominant Sp 	ecies	
1.				-				_ That are OBL, FACW, o		2 (A)
2. 3.	-							Total Number of Domina	ant	
4.				-		·		_ Species Across All Strat	ta: _	2 (B)
						= Total Cover		Percent of Dominant Sp		400 (A/D)
	Sapling/Shrub Stra	tum (Plot size:)				That are OBL, FACW, o	r FAC:	100 (A/B)
1.								Prevalence Index work	sheet:	
2. 3.				-				Total % Cover of: OBL species	x 1 =	Multiply by:
3. 4.								FACW species	x 2 =	
5.				-		. ———		FAC species FACU species	x 3 = x 4 =	
	Herb Stratum	(Plot size:	5 ft dia	\		= Total Cover		UPL species Column Totals:	x 5 = (A)	(B)
		(1 101 3126.	3 it dia	.,						(8)
1. 2.	Schedonorus arund	dinaceus		-	70% 30	yes yes	FAC FAC	Prevalence Index = B/A		
3. 4.				-		<u> </u>		_ Hydrophytic Vegetatio	n Indicators:	
5.				-				Rapid Test	for Hydrophytic Vege	tation
6. 7.								Prevalence	Test is >50% Index is <3.0 ⁽¹⁾	
8. 9.				-					cal Adaptations ⁽¹⁾ (Pronarks or on a separate	
10 11									on-Vascular Plants ⁽¹⁾ c Hydrophytic Vegeta	tion ⁽¹⁾ (Evolain)
				-						
					100%	= Total Cover			ers of hydric soil and versent, unless disturbe	
	Woody Vine Stratus	m (Plot size:)						
1.				-				Hydrophytic		
2.				-				Vegetation Present?	Yes <u>x</u>	No
						= Total Cover				
	% Bare Ground in H	Herb Stratum		-						
	Remarks:							1		
US	Army Corps of Enginee	ers						Western Mou	untains, Valleys, and Coa	st – Version 2.0

Sampling Point:	SP-29
Sampling Follit.	3F-28

SOIL											
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	e indicator of co	onfirm the abse	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks			
0-9	40VD 2/2	400					-:-1				
9-17	10YR 3/2 10YR 3/2	100 95%	10YR 4/4	5		М	sicl sicl				
J-11	101103/2	90 /0	1011(4/4			IVI	3101				
	· -						· 				
							·				
(1)Typo: C-	Concentration	D-Doplotion	DM-Poducod Matrix	CS-C0V	arad of Castad 9	Cand Crains (2)	Location: PL=Pore Lining, I	M-Matrix			
(1)1ype. C-	Concentration,	D-Depletioi	i, Rivi-Reduced iviality	, 03-000	ered or Coaled S	bariu Grairis. (2)	Location. FL-Fore Lining, i	vi-iviati ix.			
Hydric Soil	Indicators: (A	oplicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Problema	tic Hydric Soils(3).			
,			=		,						
	Histosol (A1)	Histosol (A1) Sar			Sandy Redox	(S5)	2 cm Muck (A10)				
	Histic Epipedo		_	Stripped Matrix (Red Parent Material (TF2)			
	Black Histic (A				Loamy Mucky		Ot	Other (Explain in Remarks)			
	Hydrogen Sul				(except MLR/						
	Depleted Belo				Loamy Gleye		(2) indicators of budge	along by the consist of the co			
	Thick Dark Su Sandy Mucky				Depleted Mat Redox Dark S		and wetland hydrology	hydrophytic vegetation			
	Sandy Gleyed					k Surface (F6)	unless disturbed or pro				
	_ Garlay Gicyco	i watiix (O+,	,		Redox Depre		dilicas disturbed of pro	bicinatio.			
			-			00.0.10 (1.0)					
Restrictive	layer (if preser	nt):									
Type:											
Donath Co.	- t \						Hardela Oall Barrerato		NI-		
Depth (inc	nes):						Hydric Soil Present?	Yes	No_		Х
Remarks:											
· tomanto.											

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all the	at apply)	Secondary Indicators (2 or more 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 (B8)	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) Frost-Heave Hummocks (D7)		
Field Observations:				
Surface Water Present? Yes	Nox Depth (inches):	Wetland Hydrology Present?		
Water Table Present? Yes	Nox Depth (inches):	Yes No x		
Saturation Present? Yes(includes capillary fringe)	No x Depth (inches):	_		
Describe Recorded Data (stream gauge, monitoring well, a	gerial photos, previous inspections), if available:	_		
Remarks:				
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0		

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date : 8/17/2017
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-30
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W
Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	none	Slope (%): 0%
Subregion (LRR):	LRR A		=	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	lame: Clacka	ımas variant silt loam			NWI class	sification:	upland
Are Climatic / hydro	ologic conditions	on the site typical for this	time of y	year?	Yes:	х	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present? Yes x No No
Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Remarks.)
SUMMARY OF	F FINDINGS	- Attach site map	show	ing sampli	na point loc	ations. tı	ransects, important features, etc.
Hydrophytic Vegeta		Yes x	No	3 - 1			
Hydric Soil Present Wetland Hydrology	?	Yes x Yes x	No No	<u> </u>	Is the Sample	d Area withi	n a Wetland? Yes x No
Remarks:		wetland depression on so		of creek near s	ite entrance		103 <u>X</u> 100
Remarks.	Flot located III	wettand depression on sol	ulii Side	of creek flear s	ite entrance.		
VEGETATION	- Use scien	tific names of plan	its.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Species
1			_				That are OBL, FACW, or FAC: 1 (A)
,			-				Total Number of Dominant
1.			-				Species Across All Strata: 1 (B)
					= Total Cover		Percent of Dominant Species
Sapling/Shrub Stra	tum (Plot size:)				That are OBL, FACW, or FAC:(A/B)
	- `						Prevalence Index worksheet:
2.			- -				Total % Cover of: Multiply by:
3. 4.			-				OBL species
5.			-				FAC species
					= Total Cover		UPL species x 5 =
Herb Stratum	_ (Plot size:	5 ft dia	_)				Column Totals:(A)(B)
Lolium multiflorum			_	90%	yes	FAC	Prevalence Index = B/A =
3.			-				
i 5.			<u>-</u>		·		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
). '.			=				x Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
3.			-				Morphological Adaptations ⁽¹⁾ (Provide supporting
). 0.			- -				data in Remarks or on a separate sheet) Wetland Non-Vascular Plants ⁽¹⁾
11			-		·		Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				90%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
Woody Vine Stratu	m (Plot size:)				must be present, unless disturbed or problematic.
l.							Hydrophytic
2.			-				Vegetation
					= Total Cover		Present? Yes x No
% Bare Ground in F	Herb Stratum	10					
			_				
Remarks:							
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Sampling Point:	SP-30

SOIL							Sampling Point:	SP-30			
	cription: (Desci	ribe to the	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)				
							,				
Depth	Matrix		Redox Features					Remarks			
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture				
0-7	10YR 3/2	100					sicl				
7-11	10YR 3/2	95%	10YR 4/4	5	С С	М	sicl	-			
11-18	10YR 3/2	95%	10YR 4/6	5	C	М	sicl	-			
	· -										
	· 							· 			
(1)Type: C=	Concentration, [D=Depletion	n, RM=Reduced Matrix	k, CS=Cove	ered of Coated S	and Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.			
	L				4-41		locally actions of Books In		- !! - (0)		
Hydric Soil	indicators: (Ap	ppiicable to	all LRRs, unless oth	ierwise no	rtea.)		Indicators of Proble	ematic Hydric S	olis(3).		
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A	10)		
Histic Epipedon (A2)					Stripped Matri	ix (S6)		Red Parent M	aterial (TF2)		
Black Histic (A3)					_ Loamy Mucky	, ,		Other (Explain	in Remarks)		
	Hydrogen Sulf Depleted Belo		face (A11)		_ (except MLRA Loamy Gleyed						
	Thick Dark Su				Depleted Matr		(3) indicators of hy	drophytic vegeta	ition		
	Sandy Mucky	. ,	_	Х	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			wetland hydrology must be present,			
	Sandy Gleyed				Depleted Dark		unless disturbed or problematic.				
	-		_		Redox Depres	ssions (F8)					
Restrictive	layer (if presen	it):									
Type:											
.,,,,,,											
Depth (inc	:hes):						Hydric Soil Present	? Yes	Х	No	
Remarks:											
Remarks.											
HYDROI	OGY										
	drology Indica	tors:									
			quired: (check all that a	apply)				Secondary Inc	icators (2 or n	nore required)	
	Curfoco Mater	. (Δ1)			Motor Ctoire	d Laguage (DO) /:	woont MLDA		Notor Stairs	L cover (BO) (MLD)	
Surface Water (A1)					vvaler Stained	d Leaves (B9) (e	skoept witka		rvater starried	Leaves (B9) (MLRA	۱۱,∠,

Wetland Hydrology Indicators: Primary Indicators (minimum of c		apply)		Secondary Ir	ndicators (2 or r	more required)
	(B2) (B4)	1,2,4A, Salt Crus Aquatic I Hydroge Oxidized Presence Recent in	rained Leaves (B9) (except MLRA, and 4B) st (B11) nvertebrates (B13) n Sulfide Odor (C1) Rhizospheres along Living Roots (C3) e of Reduced Iron (C4) ron Reduction in Tilled Soils (C6) or Stressed Plants (D1) (LRR A) explain in Remarks)	x 	4A, and 4B) Drainage Patte Dry-Season W Saturation Vis Geomorphic F Shallow Aquita FAC-Neutral T Raised Ant Mo	terns (B10) Vater Table (C2) sible on Aerial Imagery (C9) Position (D2) tard (D3)
Field Observations:						
Surface Water Present?	Yes	No x	Depth (inches):	Wetland Hyd	drology Presei	nt?
Water Table Present?	Yes	No x	Depth (inches):	Yes	x	No
Saturation Present? (includes capillary fringe)	Yes	Nox	Depth (inches):	_		
Describe Recorded Data (stream	gauge, monitoring well, aer	ial photos, previous ins	spections), if available:			
Remarks:						
US Army Corps of Engineers				Western Mour	ntains. Vallevs an	nd Coast - Version 2.0

Project/Site:	Airport Industrial			City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-31	
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.):	terrace Lo	cal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%
Subregion (LRR):	LRR A			Lat: <u>44</u>	.529142° N	Long:	-123.933778° W	Datum: HAR	NAD83
Soil Map Unit N	Name: Clackan	nas variant silt loam			NWI class	sification:	upl		
Are Climatic / hydro	ologic conditions o	on the site typical for this	time of y	year?	Yes:	Х	No:	_ (If no	explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes <u>x</u>	No
Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Rem	narks.)	
SUMMARY O	F FINDINGS	- Attach site map	show	ing sampli	ng point loc	ations, tr	ransects, important	features, etc.	
Hydrophytic Vegeta	ation Present?	Yes x	No						
Hydric Soil Present Wetland Hydrology		Yes Yes	No No	X	Is the Sample	d Area withi		s	No_x
Remarks:	Plot located on s	lightly elevated terrace o	n south	side of creek					
VEGETATION	I - Use scient	ific names of plan	ts.						
	(Plot size:	•	`	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	
Tree Stratum	(Plot size:		.)	% Cover	Species?	Status	Number of Dominant Sp		
1. 2.					·		That are OBL, FACW, o	r FAC:	1 (A)
							Total Number of Domina Species Across All Strat		1 (B)
			•		T-4-1 O		= '		
					= Total Cover		Percent of Dominant Sp That are OBL, FACW, o		(A/B)
Sapling/Shrub Stra	tum (Plot size:)						
1.					·		Prevalence Index work Total % Cover of:	sheet:	Multiply by:
3.							OBL species	x 1 =	Multiply by.
4 5.			•		· ———		FACW species FAC species	x 2 = x 3 =	
			•		= Total Cover		FACU species UPL species	x 4 = x 5 =	
Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
Lolium multiflorum			•	100%	yes	FAC	Prevalence Index = B/A	=	
2. 3.							_		
4. 5.			•				Hydrophytic Vegetatio	n Indicators: for Hydrophytic Veg	etation
6.			•				x Dominance	Test is >50%	otation.
7. 8.								Index is <3.0 ⁽¹⁾ cal Adaptations ⁽¹⁾ (F	rovide supporting
9					·			narks or on a separa on-Vascular Plants ⁽¹	
11.								c Hydrophytic Veget	
				100%	= Total Cover			rs of hydric soil and	
Woody Vine Stratu	m (Plot size:)				must be pre	esent, unless disturb	ed or problematic.
1.							Hydrophytic		
2.							Vegetation	Voc v	No
					= Total Cover		Present?	Yes <u>x</u>	No
% Bare Ground in	Herb Stratum		-						
Remarks:	<u>-</u>								
US Army Corps of Engine	ers						Western Mou	untains, Valleys, and Co	past – Version 2.0

Sampling Point:	SP-31

Western Mountains, Valleys and Coast - Version 2.0

SOIL

US Army Corps of Engineers

Depth	Matrix		Redox Features					
Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
10	40V/D 0/0	400					-1-1	
10 -18	10YR 3/2 10YR 3/2	100 95%	10YR 3/4	5	C	М	sicl sicl	
10	10110 3/2	3370	1011(3/4			IVI	SICI	
	-							
	· —— ·							
	· —— ·							
Гуре: С=	Concentration,	D=Depletion	, RM=Reduced Matrix	, CS=Cover	ed of Coated	Sand Grains. (2)L	ocation: PL=Pore Linin	g, M=Matrix.
dric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	erwise note	ed.)		Indicators of Proble	matic Hydric Soils(3).
	Histosol (A1)				Sandy Redox	x (S5)		2 cm Muck (A10)
	Histic Epipedo	on (A2)	_		Stripped Mat			Red Parent Material (TF2)
	Black Histic (A		_			y Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sul				(except MLR			
	Depleted Belo					ed Matrix (F2)	(2) indicators of built	
	Thick Dark Su Sandy Mucky				Depleted Ma Redox Dark		(3) indicators of hydral	pgy must be present,
	Sandy Gleyed					rk Surface (F7)	unless disturbed or	
	.,,00	. (=		Redox Depre			•
trictive	layer (if preser	nt):						
pe:	-							
· epth (inc	hes):						Hydric Soil Present?	? Yes No x
, pu., (e							,	
narks:								
tland Hy	drology Indica		uired: (check all that a	nnly)				Secondary Indicators (2 or more required)
tland Hy	drology Indica		uired: (check all that a	pply)				Secondary Indicators (2 or more required)
land Hy	drology Indica	n of one rec	uired: (check all that a	pply)	Water Staine	ed Leaves (B9) (e	xcept MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,
land Hy	drology Indica cators (minimur Surface Wate High Water Ta	n of one req r (A1) able (A2)	uired: (check all that a	pply)	1,2,4A, and	d 4B)	xcept MLRA	Water Stained Leaves (B9) (MLRA 1, 4A, and 4B)
land Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (A3	n of one req r (A1) able (A2) 3)	uired: (check all that a	pply)	1,2,4A, and Salt Crust (B	d 4B) 11)	xcept MLRA	Water Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10)
land Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks)	n of one req r (A1) able (A2) B) B1)	uired: (check all that a - - - -	pply)	1,2,4A, and Salt Crust (B Aquatic Inver	d 4B) 11) rtebrates (B13)	xcept MLRA	Water Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
tland Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (AC Water Marks of Sediment Dep	r (A1) able (A2) B) (B1) posits (B2)	uired: (check all that a - - - - -	pply)	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su	d 4B) 11) rtebrates (B13) ulfide Odor (C1)	•	Water Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (
land Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks of Sediment Dep Drift Deposits	r (A1) able (A2) (B1) cosits (B2) (B3)	uired: (check all that a - - - - - -	ipply)	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along	Living 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)
tland Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (A' Water Marks (Sediment Dep Drift Deposits Algal Mat or C	r (A1) able (A2) B) (B1) sosits (B2) (B3) crust (B4)	uired: (check all that a - - - - - - - -	pply)	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C4	Living 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) Shallow Aquitard (D3)
tland Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks of Sediment Dep Drift Deposits	r (A1) able (A2) B) (B1) cosits (B2) (B3) crust (B4) (B5)	uired: (check all that a - - - - - - - -	pply)	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along	Living Roots (C3) t) d Soils (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)
land Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (AS Water Marks) Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	r (A1) able (A2) B1) B1) cosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeri	- - - - - - al imagery (B7)	pply)	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F Stunted or Si	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tiller	Living Roots (C3) t) d Soils (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)
land Hy	drology Indica cators (minimur Surface Wate High Water Ta Saturation (AS Water Marks) Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	r (A1) able (A2) B1) B1) cosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeri	- - - - - - -	ipply)	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F Stunted or Si	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tillet tressed Plants (D	Living Roots (C3) t) d Soils (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)
land Hy aary Indi	drology Indica cators (minimur Surface Wate High Water Ta Saturation (AS Water Marks of Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vego	r (A1) able (A2) B1) B1) cosits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeri	- - - - - - al imagery (B7)	pply)	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F Stunted or Si	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tillet tressed Plants (D	Living Roots (C3) t) d Soils (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)
d Obser	drology Indica cators (minimur Surface Wate High Water Ta Saturation (AS Water Marks of Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vego	n of one record (A1) able (A2) B) (B1) posits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aerietated Conc	- - - - - - al imagery (B7)		1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F Stunted or Si	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tillet tressed Plants (D ain in Remarks)	Living Roots (C3) t) d Soils (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)
tland Hy nary Indi	drology Indica cators (minimur Surface Wate High Water Ti Saturation (AS Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vegovations:	n of one record (A1) able (A2) B) (B1) posits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aerietated Conc	al imagery (B7) ave Surface (B8)		1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron I Stunted or Si Other (Expla	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tillet tressed Plants (D ain in Remarks)	Living Roots (C3) i) d Soils (C6) 1) (LRR 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)
d Observace Wa	drology Indicacators (minimur Surface Wate High Water Ta Saturation (AS Water Marks of Sediment Deposits Algal Mat or Collinon Deposits Surface Soil Collinundation Vision Sparsely Vegovations: Present?	n of one reconstruction of (A1) able (A2) able (A2) able (B3) bosits (B2) (B3) brust (B4) (B5) bible on Aericlated Concordance Yes	al imagery (B7) ave Surface (B8)	No	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su. Oxidized Rhi Presence of Recent iron I Stunted or S Other (Expla	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tillet tressed Plants (D ain in Remarks) Depth (inches):	Living Roots (C3) I) I Soils (C6) 1) (LRR 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) Wetland Hydrology Present?
d Obserrace Water Table	drology Indicacators (minimur Surface Wate High Water Ta Saturation (AS Water Marks of Sediment Deposits Algal Mat or Collinon Deposits Surface Soil Collinundation Vision Sparsely Vegovations: Present?	n of one red r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aerietated Cond	al imagery (B7) ave Surface (B8)	No	1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron I Stunted or Si Other (Expla	d 4B) 11) 11brates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C4 Reduction in Tillet tressed Plants (D ain in Remarks) Depth (inches):	Living Roots (C3) I) I Soils (C6) 1) (LRR 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) Wetland Hydrology Present?
d Obserrace Wa er Table	drology Indicacators (minimur Surface Wate High Water Ta Saturation (AS Water Marks) Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: ter Present? Present?	n of one red r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeri etated Cond	al imagery (B7) ave Surface (B8)	No No No	1,2,4A, and Salt Crust (B Aquatic Inverted Hydrogen Su. Oxidized Rhi Presence of Recent iron I Stunted or St Other (Explain X	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C2 Reduction in Tillet tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	Living Roots (C3) i) d Soils (C6) 1) (LRR 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) Wetland Hydrology Present?
d Observace Water Table uration Fundes ca	drology Indicacators (minimur Surface Wate High Water Ta Saturation (AS Water Marks) Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: ter Present? Present?	n of one red r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeri etated Cond	al imagery (B7) ave Surface (B8)	No No No	1,2,4A, and Salt Crust (B Aquatic Inverted Hydrogen Su. Oxidized Rhi Presence of Recent iron I Stunted or St Other (Explain X	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C2 Reduction in Tillet tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	Living Roots (C3) i) d Soils (C6) 1) (LRR 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) Wetland Hydrology Present?
Id Obser face Wa ter Table turation F	drology Indicacators (minimur Surface Wate High Water Ta Saturation (AS Water Marks) Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: ter Present? Present?	n of one red r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeri etated Cond	al imagery (B7) ave Surface (B8)	No No No	1,2,4A, and Salt Crust (B Aquatic Inverted Hydrogen Su. Oxidized Rhi Presence of Recent iron I Stunted or St Other (Explain X	d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C2 Reduction in Tillet tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	Living Roots (C3) i) d Soils (C6) 1) (LRR 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) Wetland Hydrology Present?

Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date : 8/17/2017
Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: SP-32
Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W
Landform (hillslope	e, terrace, etc.):	terrace Lo	cal reli	ef (concave, cor	nvex, none):	none	Slope (%): 2%
Subregion (LRR):	LRR A		-	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	Name: <u>Daytor</u>	n silt loam			NWI class	sification:	PSSA
Are Climatic / hydr	ologic conditions	on the site typical for this ti	ime of y	/ear?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soil	or Hydrology		Significantly d	sturbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation		or Hydrology		- "		(If needed, e	explain any answers in Remarks.)
•							ransects, important features, etc.
Hydrophytic Veget			No	villig sampi	mg point loc		ransosis, important routures, etc.
Hydric Soil Presen	it?	Yes x	No		Is the Sample	d Area withii	
Wetland Hydrology		Yes x	No				Yes <u>x</u> No
Remarks:	Plot located on	east side of SA in east field	d				
VEGETATION	N - Use scien	tific names of plan	ts.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:)	% Cover	Species?	Status	_
1							Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
							Total Number of Dominant
4.							Species Across All Strata: 3 (B)
					= Total Cover		Percent of Dominant Species
Sapling/Shrub Stra	atum (Plot size:)				That are OBL, FACW, or FAC:(A/B)
<u>Japinig</u> , Jinab Jab	<u></u> (1 101 0120.		.′				
1. 2.							Prevalence Index worksheet: Total % Cover of: Multiply by:
3. 4.					· 		OBL speciesx 1 = FACW speciesx 2 =
5.							FAC species x 3 =
					= Total Cover		FACU species
Herb Stratum	_ (Plot size:	5 ft dia)				Column Totals: (A) (B)
1. Agrostis capillaris				60%	yes	FAC	Prevalence Index = B/A =
Holcus lanatus Schedonorus arun	dinaceus			20	yes yes	FAC FAC	
4 5.					· 		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
6.			•				x Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
7. 8.							Morphological Adaptations (1) (Provide supporting
							data in Remarks or on a separate sheet) Wetland Non-Vascular Plants (1)
11.							Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
				100%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
Woody Vine Stratu	ım (Plot size:)				must be present, unless disturbed or problematic.
1	_ :		•				Hydrophytic
2.			•				Vegetation
					= Total Cover		Present? Yes x No
% Bare Ground in	Harh Stratum						
	rieib อแลเน่m						
Remarks:							
US Army Corps of Engine	eers						Western Mountains, Valleys, and Coast – Version 2.0

Sampling Point:	SP-32
Sampling Follit.	3F-3Z

							Sampling Point:	SP-32		
SOIL										
Profile Des	cription: (Des	cribe to the c	lepth needed to doo	ument the	indicator of c	onfirm the abse	nce of indicators.)			
Danth	N. A maderia.		Daday Faaturaa							
Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type (1)	Loc (2)	_ Texture	Remarks		
(IIICHES)	Color (moist)		Color (moist)	/0		LUC (2)	Texture	Remarks		
)-8	10YR 3/2	100					sicl			
3-20	10YR 3/2	95%	10YR 4/4	5	С С	M	sicl			
							-			
							-			
								_		
								_		
							- ·			
1)Type: C=	Concentration	D=Depletion	PM=Peduced Matrix	/ CS=Cov	ered of Coated	Sand Graine (2)	Location: PL=Pore Lin	ning M=Matrix		
) гуре. С-	Concentration,	D-Depletion,	, INIVI-INEGUCEG IVIALITA	k, C3-C0V	ered or Coaled	Sand Grains. (2)	Location. I L-I ore Lin	iii g, W-Watix.		
vdric Soil	Indicators: (A	oplicable to	all LRRs, unless otl	nerwise no	oted.)		Indicators of Probl	lematic Hydric Soils(3).		
,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		,					
	Histosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A10)		
	Histic Epiped		- -		Stripped Mat			Red Parent Material (TF2)		
	Black Histic (. ,	<u>-</u>			y Mineral (F1)		Other (Explain in Remarks)		
	Hydrogen Su		-		_ (except MLR					
		low Dark Surfa	ace (A11)			ed Matrix (F2)	(O) in dia atau after	adecate de consentation		
	Thick Dark S	` ,	_		Depleted Ma	, ,	(3) indicators of hydrophytic vegetation and wetland hydrology must be present,			
		y Mineral (S1) d Matrix (S4)		Х		Surface (F6) rk Surface (F7)	unless disturbed of			
	Salidy Gleye	u Matrix (54)	-		Redox Depre	, ,	uniess disturbed c	or problematic.		
			-		_ Redox Depre	23310113 (1 0)				
estrictive	layer (if prese	ent):								
		•								
Type:										
Depth (inc	hes):						Hydric Soil Presen	nt? Yes <u>x</u> No		
emarks:										
IYDROL										
	drology Indic							0 1 1 1 1 10		
imary Indi	cators (minimu	ım of one requ	uired: (check all that a	apply)	_			Secondary Indicators (2 or more required)		
	Curfoco M-+	or (A1)			Mater Stein	ad Lagues (BO) (oveent MLPA	Water Stained Leaves (DO) (MLDA 4.0		
	Surface Water T		-		_ vvater Staine 1,2,4A, and	ed Leaves (B9) (e	except with	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B)		
	Saturation (A		-		Salt Crust (B	,		Drainage Patterns (B10)		
	Water Marks		-			rtebrates (B13)		Dry-Season Water Table (C2)		
	Sediment De		-			ulfide Odor (C1)		x Saturation Visible on Aerial Imagery (CS		
	Drift Deposits		-				Living Roots (C3)	x Geomorphic Position (D2)		
	Algal Mat or		-			Reduced Iron (C		Shallow Aquitard (D3)		
	Iron Deposits	, ,	-		_	Reduction in Tille	,	FAC-Neutral Test (D5)		
	0	O(DO)	-			to a control Discrete (F	A) ((DD A)	Defend Ant Manual (DO) (LDD A)		

Surface Soil Cracks (B6) Inundation Visible on Aerial imagery (B7) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: No ____x Depth (inches): ____ Surface Water Present? Wetland Hydrology Present? No ____x Depth (inches): Water Table Present? Yes _____ No x Depth (inches): Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: US Army Corps of Engineers Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industrial		_City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanon		State:	OR		Sampling Point:	SP-33	
	Investigator(s):	A. Martin		_Section, Town	ship, Range:	16, T12S, R	02W		
	Landform (hillslope	, terrace, etc.): terrace	Local reli	ef (concave, co	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A		Lat:44	.529142° N	Long:	-123.933778° W	Datum: HAR	N NAD83
	Soil Map Unit N	lame: Clackamas variant silt loam			NWI class	ification:	PSSA		
	Are Climatic / hydro	ologic conditions on the site typical for thi	is time of	year?	Yes:	х	No:	(If no	explain in remarks)
	Are Vegetation	Soil or Hydrology		_Significantly d	isturbed?	Are"Normal	Circumstances" present?	Yes x	No
	Are Vegetation	Soil or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Ren	narks.)	
	SUMMARY O	F FINDINGS - Attach site ma				ations. t	ransects. importan	t features, etc.	
	Hydrophytic Vegeta				J 1				
	Hydric Soil Present Wetland Hydrology	? Yes	No No	X	Is the Sample	d Area withi		s	No x
	Remarks:							<u> </u>	
	r torriame.								
	VEGETATION	- Use scientific names of pla	ante						
		•	ants.	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status	_ Number of Dominant Sp	pecies	
1.							That are OBL, FACW, o	or FAC:	(A)
3.							Total Number of Domin		
4.			_				Species Across All Stra	ta:	2 (B)
					= Total Cover		Percent of Dominant Sp That are OBL, FACW, of		100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						((12)
1.							Prevalence Index worl	ksheet:	
2. 3.	-				- <u> </u>		Total % Cover of: OBL species	x1=	Multiply by:
4. 5.			_				FACW species FAC species	x2=	
Э.	-			-			FACU species	x 4 =	
	Herb Stratum	(Plot size: 5 ft dia)		= Total Cover		UPL species Column Totals:		(B)
1	Schedonorus arund	dinaceus		70%	yes	FAC	Prevalence Index = B/A		
2.	Agrostis capillaris	maccus	_	30	yes	FAC	_ Trevalence index = B/A		
3. 4.			_				Hydrophytic Vegetation	on Indicators:	
5. 6.	-							t for Hydrophytic Veg e Test is >50%	getation
7.							Prevalence	e Index is <3.0 ⁽¹⁾	
8. 9.			_				data in Rer	ical Adaptations ⁽¹⁾ (F marks or on a separ	ate sheet)
10			_		. ——			on-Vascular Plants ⁽ c Hydrophytic Vegel	
				100%	= Total Cover		(1) Indicate	ors of hydric soil and	wetland hydrology
				100 /6	- Total Cover			esent, unless disturt	
	Woody Vine Stratur	m (Plot size:)						
1. 2.			_				Hydrophytic Vegetation		
							Present?	Yes x	No
					= Total Cover				
	% Bare Ground in F	Herb Stratum							
	Remarks:						•		
116	S Army Corps of Engine	ere					Mostern Ma	untains, Valleys, and C	nast – Version 2 0
90	, Sorps of Engiller						**E3(E111 IVIU	valicys, and C	5.51011 2.0

Sampling Point:

SP-33

SOIL

Profile Des	cription: (Desc	cribe to the	depth needed to doci	ument the	indicator of o	confirm the abse	nce of indicators.)		
. romo Boo	Jilpaoii. (Book	nibo to tilo	aopin nocaca to acci	unioni tiro	maioator or c	oommin the about	noo or maioatoro.,		
Depth	Matrix		Redox Features						
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks
0-10	10YR 3/2	100					sicl		
10-19	10YR 3/2	95%	10YR 3/4	5	С	M	sicl		
					-				
(1)Type: C=	Concentration,	D=Depletion	n, RM=Reduced Matrix	, CS=Cove	red of Coated	d Sand Grains. (2)L	ocation: PL=Pore Linin	g, M=Matrix.	_
Hvdric Soil	Indicators: (A	pplicable to	o all LRRs, unless oth	erwise not	ed.)		Indicators of Proble	matic Hydric Soils(3).	
•			•		,			, ,	
	Histosol (A1)		_		Sandy Redo			2 cm Muck (A10)	2)
	Histic Epiped Black Histic (_		Stripped Ma	cky Mineral (F1)		Red Parent Material (TF Other (Explain in Remar	
	Hydrogen Su	' '	_		(except MLF			Other (Explain in Remai	10)
	Depleted Bel		rface (A11)			yed Matrix (F2)			
	Thick Dark Si				Depleted M		(3) indicators of hyd		
	Sandy Mucky					Surface (F6)	,	ogy must be present,	
	Sandy Gleye	a Matrix (54	_			ark Surface (F7) ressions (F8)	unless disturbed or	problematic.	
					. rodox Bop.				
Restrictive	layer (if prese	nt):							
Type:									
5 " "									
Depth (inc	hes):						Hydric Soil Present?	Yes	Nox
Remarks:									
HYDROL									
	drology Indicators (minimu		quired: (check all that a	ipply)				Secondary Indicators (2	or more required)
					_				
	Surface Water High Water T	` '	-		Water Stain 1,2,4A, ar	ned Leaves (B9) (e	xcept MLRA	Water Stai	ned Leaves (B9) (MLRA 1,2,
	Saturation (A		-		Salt Crust (I				Patterns (B10)
	Water Marks		-			ertebrates (B13)			on Water Table (C2)
	Sediment De	posits (B2)	_		Hydrogen S	Sulfide Odor (C1)		Saturation	Visible on Aerial Imagery (C9)
	Drift Deposits		_			hizospheres along	. ,		ic Position (D2)
	Algal Mat or (. ,	_			f Reduced Iron (C	,		quitard (D3)
	Iron Deposits Surface Soil (_			Reduction in Tille Stressed Plants (D			ral Test (D5) t Mounds (D6) (LRR A)
			rial imagery (B7)			olain in Remarks)	(Litterty		ve Hummocks (D7)
	Sparsely Veg	jetated Cond	cave Surface (B8)		, ,	ŕ			, ,
Field Observ	vations:							Ī	
Surface Wat	er Present?	Yes	S	No	X	Depth (inches):		Wetland Hydrology Pres	ent?
Water Table	Present?	Yes	s	No	х	Depth (inches):		Yes	No x
0-1				NI-		Double (in the ca)		-	
Saturation P (includes ca	resent? pillary fringe)	Yes	S	No	X	_ Depth (inches):			
Describe Re	corded Data (s	tream gauge	e, monitoring well, aeria	al photos, p	revious inspe	ections), if available	9:	l	
Remarks:									
rtomarto.									
US Army Corp	ps of Engineers							Western Mountains, Valley	s and Coast - Version 2.0

Project/Site:	Airport Industrial	City/County:	Lebanon/Linn		Sampling Date: 8/17/2017
Applicant/Owner:	City of Lebanon	State:	OR		Sampling Point: SP-34
Investigator(s):	A. Martin	Section, Towr	nship, Range:	16, T12S, R0	02W
Landform (hillslope	, terrace, etc.): terrace	Local relief (concave, co	nvex, none):	none	Slope (%): 0%
Subregion (LRR):	LRR A	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
Soil Map Unit N	lame: Clackamas variant silt loam		NWI class	sification:	PSSA
Are Climatic / hydro	ologic conditions on the site typical for th	is time of year?	Yes:	x	No: (If no explain in remarks)
Are Vegetation	Soilor Hydrology	Significantly d	listurbed?	Are"Normal	Circumstances" present? Yes x No
Are Vegetation	Soil or Hydrology			(If needed, e	xplain any answers in Remarks.)
•	· 				ansects, important features, etc.
Hydrophytic Vegeta Hydric Soil Present	? Yes x	No No	Is the Sample	d Area withir	
Wetland Hydrology		No			Yes <u>x</u> No
Remarks:	Plot located in lower terrace at southea	st corner of TL 2804			
VEGETATION	- Use scientific names of pla	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:)% Cover	Species?	Status	_
1		_			Number of Dominant Species That are OBL, FACW, or FAC:
•					- Total Number of Dominant
4.					Species Across All Strata:1 (B)
			= Total Cover		Percent of Dominant Species
Sapling/Shrub Stra	tum (Plot size:)			That are OBL, FACW, or FAC:(A/B)
<u>oupmigronius ond</u>					
2.					Prevalence Index worksheet: Total % Cover of: Multiply by:
3. 4.					OBL species
5.					FAC species x 3 =
			= Total Cover		FACU species
Herb Stratum	(Plot size: 5 ft dia)			Column Totals:(A)(B)
1. Agrostis capillaris		80%	yes	FAC	Prevalence Index = B/A =
 Holcus lanatus Hypochaeris radica 	ta			FACU FACU	-
 Daucus carota 5. 		5		FACU	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
6.		_			x Dominance Test is >50%
7. 8.		_			Prevalence Index is <3.0 ⁽¹⁾ Morphological Adaptations ⁽¹⁾ (Provide supporting
					data in Remarks or on a separate sheet)
10 11.					Wetland Non-Vascular Plants ⁽¹⁾ Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)
		100%	= Total Cover		(1) Indicators of hydric soil and wetland hydrology
		10078	_ = Total Cover		must be present, unless disturbed or problematic.
Woody Vine Stratu	m (Plot size:)			
1. 2.		_	·		Hydrophytic Vegetation
					Present? Yes x No
			_ = Total Cover		
% Bare Ground in I	Herb Stratum	_			
Remarks:					•
US Army Corps of Enginee	ers				Western Mountains, Valleys, and Coast - Version 2.0

SOIL							Camping Font.	01 -04	_	
Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)			
Depth	Matrix		Redox Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks		
0-6	10YR 3/2	100					sicl			
6-8	10YR 3/2	98%	10YR 4/4	2	С С	PL	sicl	2% OR		
8-18	10YR 3/2	95%	10YR 4/4	5	С	М	sicl			
								-		
	·						-	-		
			- 		 -		-			
(1)Type: C=	Concentration, I	D=Depletion	n, RM=Reduced Matrix	, CS=Cov	ered of Coated S	Sand Grains. (2)l	_ocation: PL=Pore Lini	ng, M=Matrix.		
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	erwise no	oted.)		Indicators of Proble	ematic Hydric Soils(3).		
	Histosol (A1)				Sandy Redox	(\$5)		2 cm Muck (A10)		
Histic Epipedon (A2)				Stripped Matrix (S6)				Red Parent Material (TF2)		
Black Histic (A3)			_	Loamy Mucky Mineral (F1)				Other (Explain in Remarks)		
Hydrogen Sulfide (A4)				(except MLRA 1)						
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)				Loamy Gleyed Matrix (F2) Depleted Matrix (F3)			(3) indicators of by	drophytic vegetation		
Sandy Mucky Mineral (S1)				x Redox Dark Surface (F6)			and wetland hydrology must be present,			
	Sandy Gleyed					k Surface (F7)				
	="		_		Redox Depre	ssions (F8)				
Restrictive	layer (if presen	nt):								
Type:										
Depth (inc	ches):						Hydric Soil Present	? Yes <u>x</u> No)	
Remarks:							l			
HYDROL										
Wetland Hy	drology Indica	tors:			-					

Wetland Hydrology Indicato Primary Indicators (minimum o		that apply)		Secondary Inc	dicators (2 or more required)	
	le (A2) 1) sits (B2) (3) st (B4) 5)	1,2,4A, Salt Crust Aquatic In Hydrogen Oxidized Presence Recent irc Stunted o Other (Ex	,	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)		
Field Observations:						
Surface Water Present?	Yes	No x	Depth (inches):	Wetland Hyd	rology Present?	
Water Table Present?	Yes	No x	Depth (inches):	Yes	x No	
Saturation Present? (includes capillary fringe)	Yes	Nox	Depth (inches):	_		
Describe Recorded Data (stre	am gauge, monitoring we	II, aerial photos, previous insp	pections), if available:			
Remarks:						
US Army Corps of Engineers				Western Mount	ains, Valleys and Coast - Version 2.0	

Project/Site:	Airport Industrial		_City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
Applicant/Owner:	City of Lebanon		State:	OR		Sampling Point:	SP-35	
Investigator(s):	A. Martin		_Section, Towr	nship, Range:	16, T12S, R	02W		
Landform (hillslope	e, terrace, etc.): terrace	Local rel	ief (concave, co	nvex, none):	none		Slope (%):	6%
Subregion (LRR):	LRR A		Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HARN	NAD83
Soil Map Unit N	Name: Clackamas variant	silt loam		_ NWI class	sification:	upl		
Are Climatic / hydro	ologic conditions on the site ty	pical for this time of	year?	Yes:	Х	No:	(If no e	xplain in remarks)
Are Vegetation	Soilor I	Hydrology	_Significantly d	listurbed?	Are"Normal	Circumstances" present?	Yesx_	No
Are Vegetation	Soilor I	Hydrology	_ Naturally prob	elematic?	(If needed, e	explain any answers in Rer	narks.)	
SUMMARY O	F FINDINGS - Attach	site map show	- ving sampli	ing point loc	ations, tr	ransects, important	features, etc.	
Hydrophytic Veget		es x No						
Hydric Soil Presen Wetland Hydrology	t? Y	es No	X	Is the Sample	d Area withi		s	No x
Remarks:	Plot located on slightly high		·	dv area.			<u> </u>	
Tromaino.	The results of ongoing ingin			ay a.ca.				
VEGETATION	I - Use scientific name	os of plants						
		es oi piants.	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	
Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dominant Sp	pecies	
1.				<u> </u>		_ That are OBL, FACW, o	or FAC:	<u>2</u> (A)
						Total Number of Domin		
4						Species Across All Stra	ta: _	<u>3</u> (B)
				= Total Cover		Percent of Dominant Sp That are OBL, FACW, of		67 (A/B)
Sapling/Shrub Stra	tum (Plot size:)					<u>-</u>	<u> </u>
1						Prevalence Index work	ksheet:	
2. 3.						Total % Cover of: OBL species	x 1 =	Multiply by:
4.						FACW species	x 2 = x 3 =	
5						FAC species FACU species	x 4 =	
Herb Stratum	(Plot size: 5 ft dia)		= Total Cover		UPL species Column Totals:	x 5 =(A)	(B)
Agrostis capillaris			50%	yes	FAC	Prevalence Index = B/A		
Schedonorus arun	dinaceus		20	yes	FAC	_ Trevalence index = bir		
Anthoxanthum odd Daucus carota	ratum		<u>20</u> 5	yes	FACU FACU	Hydrophytic Vegetation	an Indiantoro	
Daucus carota Hypochaeris radica	ata		5		FACU		t for Hydrophytic Vege	tation
6.							e Test is >50%	
7. 8.							e Index is <3.0 ⁽¹⁾ ical Adaptations ⁽¹⁾ (Pro	ovide supporting
						data in Re	marks or on a separat	
							on-Vascular Plants ⁽¹⁾	::(1) (:
11						Problemati	c Hydrophytic Vegeta	lion (Explain)
			100%	= Total Cover			ors of hydric soil and vesent, unless disturbe	
Woody Vine Stratu	m (Plot size:)						
1						Hydrophytic		
2				- ·		Vegetation Present?	Yes x	No
				= Total Cover				
% Bare Ground in	Herb Stratum							
Remarks:								
US Army Corps of Engine	ers					Western Mo	untains, Valleys, and Coa	st – Version 2.0

SOIL							Sampling Point:	SP-35			
	cription: (Desc	ribe to the	depth needed to doc	ument the	e indicator of co	onfirm the abser	nce of indicators.)				
Depth	Matrix		Redox Features								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks		
0-10	10YR 3/2	100					sicl				
10-18	10YR 3/2	95%	10YR 3/4	5	С	М	sicl				
							·	-			
					·		-	-	-		
(1)Type: C=	Concentration, [D=Depletion	, RM=Reduced Matrix	ر, CS=Cov	ered of Coated S	Sand Grains. (2)	ocation: PL=Pore Lini	ng, M=Matrix.	<u>—</u>		
Hydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	nerwise no	oted.)		Indicators of Proble	ematic Hydric Soils(3).			
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)			
Histic Epipedon (A2)			<u>-</u>	Stripped Matrix (S6)				Red Parent Material (TF2)			
	Black Histic (A3) Loamy Mucky Mineral (F					-	Other (Explain in Rema	arks)			
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11)				(except MLRA Loamy Gleyer	,						
Thick Dark Surface (A12)			Depleted Matrix (F3)			(3) indicators of hy	drophytic vegetation				
Sandy Mucky Mineral (S1)			Redox Dark Surface (F6) Depleted Dark Surface (F7)			and wetland hydrology must be present, unless disturbed or problematic.					
	Sandy Gleyed	Matrix (S4)	-		Redox Depres	, ,	unless disturbed or				
			-								
Restrictive	layer (if presen	nt):									
Type:											
Depth (inc	ches):						Hydric Soil Present	1? Yes	No	х	
Remarks:											
· · · · · · · · · · · · · · · · · · ·											
HYDROI	LOGY										
	drology Indica		order de Calaca II. II. II. II.					Occasion I II I	0 : "		
Primary Ind	icators (minimun	n of one req	uired: (check all that a	ipply)	_			Secondary Indicators (2 or more required)		

Wetland Hydrology Indicators: Primary Indicators (minimum of one req	uired: (check all that apply)	_		Secondary II	ndicators (2 or more 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 Aeri		1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S	,	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)		
Field Observations:						
Surface Water Present? Yes	. No	о <u>х</u>	Depth (inches):	_ Wetland Hy	drology Present?	
Water Table Present? Yes	. No	o <u>x</u>	Depth (inches):	Yes	No x	
Saturation Present? Yes (includes capillary fringe)	No	o <u>x</u>	Depth (inches):	-		
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, p	previous inspe	ctions), if available:			
Remarks:						
US Army Corps of Engineers				Western Mour	ntains, Valleys and Coast - Version 2.0	



Photo 1: View looking south from north end of TL 2802 (8/14/17).



Photo 2: North end of TL 2802 looking west (8/14/17).



Photo 3: Looking south from north end of TL 2804 (8/17/17).



Photo 4: View of north end of TL 2804 looking west (8/17/17).



Photo 5: Looking north along east side of TL 2804 (8/17/17).



Photo 6: North end of TL 2804 (8/17/17).



Photo 7: Looking west across upland in north end of study area (8/17/17).



Photo 8: View looking south in weedy mowed field in TL 2804 (8/17/17).



Photo 9: View looking southeast at wetland swale near center of study area (8/17/17).



Photo 10: View of backhoe pits on north end of TL 2802 (8/14/17).



Photo 11: Looking south at wetland covering rye grass field on TL 2802 (8/14/17).



Photo 12: Wetland on west side of TL 2802 looking north (8/14/17).



Photo 13: Looking north in Tax Lot 2402 along fence line separating the two tax lots (8/17/17).



Photo 14: View of east side of TL 2404 looking to the east with airport buildings in the distance (8/17/17).



Photo 15: Looking west at wetland swale in TL 2402. (8/17/17).



Photo 16: View from west side of TL 2402 looking south (8/14/17).



Photo 17: View looking southeast at horse pasture, barn and residence in southeast corner of TL 2404 (8/17/17).



Photo 18: View of south end of TL 2404 with storage buildings on adjacent property in distance (8/17/17).



Photo 19: View looking north across upland area in small pasture north of residence (8/17/17).



Photo 20: View of upland in southeast corner of TL 2402 (8/17/17).



Photo 21: Looking across line of backhoe pits in southwest corner of TL 2404 (8/17/17).



Photo 22: Looking toward southeast corner of TL 2802 with intermittent tributary on photo right (8/14/17).

APPENDIX E: Literature Citations

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