WETLAND DELINEATION / DETERMINATION REPORT COVER FORM Exhibit H

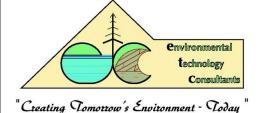
This form must be included with any wetland delineation report submitted to the Department of State Lands for review and approval. A wetland delineation report submittal is not "complete" unless the fully completed and signed report cover form and the required fee are submitted. Attach this form to the front of an unbound report or include a hard copy of the completed form with a CD/DVD that includes a single PDF file of the report cover form and report (minimum 300 dpi resolution) and submit to: **Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279.** A single PDF attachment of the completed cover from and report may be e-mailed to **Wetland_Delineation@dsl.state.or.us**. For submittal of PDF files larger than 10 MB, e-mail instructions on how to access the file from your ftp or other file sharing website. Fees can be paid by check or credit card. Make the check payable to the Oregon Department of State Lands. To pay the fee by credit card, call 503-986-5200.

check payable to the Oregon Department of State Lands. To pay the	e fee by credit card, call 503-986-5200.
Applicant Owner Name, Firm and Address:	Business phone # 503-860-2501
Great American Development, Joe Spaziani	Mobile phone #
16287 S. Forsythe Road	E-mail: joeandpenny@hotmail.com
Oregon City, Oregon, 97045	
Authorized Legal Agent, Name and Address:	Business phone # 360-696-4403
Environmental Technology Consultants	Mobile phone # 503-580-2465
375 Portland Ave, Gladstone, OR 97027	E-mail: JohnM@etcEnvironmental.net
Laithar awa the proporty described below or Lhave legal authority t	o allow access to the property. I authorize the Department to access the
property for the purpose of confirming the information in the report,	
Typed/Printed Name: Joe Spaziani	Signature:
Date: April 20, 2017 Special instructions regarding site a	ccess: Contact owner or consultant.
Project and Site Information (using decimal degree for	ormat for lat/long of site or start & end points of linear project)
Project Name: 37090 SE Kelso Road	Latitude: N 45.245314 Longitude: W -122.165512
Proposed Use: New Subdivision (Sandy Woods)	Tax Map # 032S4E11
Project Street Address (or other descriptive location):	Township T2S Range R4E Section 2 QQ AC
37090 SE Kelso Road	Tax Lot(s) 24E1102200, 24E11AC00828 & 24E11AC00832
	Waterway: No name River Mile:
City: Boring, OR County: Clackamas	NWI Quad(s): Sandy, Oregon
Wetland Delir	neation Information
Wetland Consultant Name, Firm and Address:	Phone # 360-696-4403
John McConnaughey, PWS & Annakate Martin NRS	Mobile phone # 503-580-2465
Environmental Technology Consultants	E-mail: JohnM@etcEnvironmental.net
375 Portland Ave, Gladstone, OR 97027	
The information and conclusions on this form and in the atta	ched report are true and correct to the best of my knowledge.
Consultant Signature:	Date: May, 2017 updated October 2018
Consultant dignature.	Date. May, 2017 apacted October 2010
Primary Contact for report review and site access is 🛛 C	Consultant
Wetland/Waters Present? ☐ Yes ☐ No Study Area	a size: 21.08 acres Total Wetland Acreage: 1.078 AC
Check Box Below if Applicable:	Fees: \$437 (2018)
□ R-F permit application submitted NWP2018-473	
☐ Mitigation bank site	Fee (\$100) for resubmittal of rejected report
☐ Wetland restoration/enhancement project (not mitigation)	No fee for request for reissuance of an expired
☐ Industrial Land Certification Program Site	report
	'
Reissuance of a recently expired delineation	
Previous DSL # Expiration date	
Other Information:	Y N
Has previous delineation/application been made on parcel?	
Does LWI, if any, show wetland or waters on parcel?	
<u> </u>	ice Use Only
DSL Reviewer: Fee Paid Date:	_// DSL WD #
Date Delineation Received: / / DSL Pro	pject # DSL Site #
Scanned: □ Final Scan: □ DSL W	N # DSL App. #

DELINEATION REPORT WD2018-0656 FOR PERMITS NWP2018-473 AND 61489-RF 37090 SE Kelso Road Boring, OR



Prepared for: Joe Spaziani Great American Development 37090 SE Kelso Road Boring, OR 97009



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Cover Photo.

Photo of stream on property shortly after blackberries were mowed. ETC Photo 3/13/2017

INTRODUCTION

This report is to be attached to remove/fill permits NWP2018-473 and 61489-RF.

This report is in response to the Corps request for a resubmittal to WD2017-0410 which only included the south end of 37090 SE Kelso Road. However, in that request they also requested the study area boundary be increased to include a small previously delineated offsite wetland who's delineation had expired. And they also requested the North end of the lot be included in the study area as the applicant had used the north part of the lot as an access road that crossed an NWI mapped stream.

ETC prepared such a report which became numbered WD2018-0656. Reviewers requested that we remove areas described by WD2017-0410, which we have done in this resubmittal. Reviewers also found fault with data points that defined Wetland "A" in the NW corner of lot 2200. Because no impacts or activities are being considered in that area at the present time, we removed the NW corner of the lot from the study in order to obtain concurrence with the rest of the report.

Originally ETC prepared a delineation report covering the entire lot 2200 (37090 SE Kelso Road). The applicant then decided only to develop the South end of the lot, and requested that ETC remove the northern portion of the lot from the study area. We did that, and submitted a report for the South end only which was accepted and numbered WD2017-0410.

However, then the City of Sandy required that Olson Road be widened, and that widening caused impacts to both onsite and offsite wetlands. The applicant also used an old road for access, and that road entered the North end of the lot from Kelso Road. DSL then requested a delineation for the North portion of lot due to the road access, and also required updated delineations for the offsite wetlands, as the existing delineations had expired for those areas.

<u>Study Area</u>: This report includes the northern portions of lot 2200, except for the NW corner of the lot containing a sloped wetland area we are calling Wetland "A". The southern study boundary of this report is the northern study boundary of WD2017-0410.

Also included in this report are areas that will be impacted the widening of Olson Road, except for those areas described in WD2017-0410. That includes two wetland tracks known as Track "A", and Track "E". Track "A" is a wetland preservation track created when the original lot was partitioned for a subdivision. Track "E" is an adjoining track used for a wetland mitigation project required by the remove/fill permit 26209-FP.

There are no Tracks "B", "C", or "D" as far as we know.

The relevant previously submitted delineations and reports for the study area of this report are:

- WD2017-0414 The south portions of lot 2200 (37090 SE Kelso Road).
- WD2000-0612 A delineation done for a subdivision known as Sandy Bluff 3, and this delineation determined a wetland area now known as "Track A" that is East of the SE corner of lot 2200.
- Mitigation 26209-FP A mitigation project required by Sandy Bluff 3 that created

All the field work on lot 2200 was done in March-May of 2017. Some additional field work was done in October of 2018 in Tracks "A" and "E" for the Olson Road Widening portion of the project.

This report is intended to assist the permittee, the City of Sandy, and the State of Oregon to evaluate the application and determine what environmental conditions or mitigations may be required to move this project forward.

QUALIFICATIONS OF JOHN MCCONNAUGHEY, PWS

I earned a Bachelor of Science degree from the University of Oregon in 1978 and in 1984 I earned a Masters of Fisheries Science degree from the University of Alaska at Juneau, (since renamed as the University of Alaska, Southeast). The Juneau curriculum specializes in the study of Pacific salmon. I held positions with agencies tasked with salmon research and management beginning with summer jobs in 1979 in Rogue River, the Oregon Dept of Fish and Wildlife, and then with the Alaska Department of Fish and Game in Ketchikan Alaska, in 1980. I worked on salmon projects with ADF&G in Anchorage and Juneau for 5 years before moving to American Samoa to serve as a fisheries projects leader for the Department of Marine and Wildlife Resources. Upon returning stateside, I worked for the Yakama/Klickitat Fisheries Project out of Yakima Washington for 5 years leading four research projects studying aspects of salmon supplementation projects in the Yakima River.

I have been employed with Environmental Technology Consultants since 2006. In 2010 I earned certification as a Professional Wetland Scientists, (PWS) from the Society of Wetlands Scientists, (SWS).

No part of my compensation is dependent on the outcome of my investigations or conclusions I may draw from the observed data.

QUALIFICATIONS OF ANNAKATE MARTIN

I earned a Bachelor of Science degree in Natural Resources from Washington State University in 2002. In 2002 I worked for the University of Idaho on MAP tracking steelhead and salmon on the Snake River out of Clarkston, Washington.2002-2003 I worked for Idaho Fish and Game as a field technician for identifying fish in remote streams in Idaho. In 2004 I worked for Environmental Technology Consultants conducting wetland delineations and Phase I ESA reports. From 2007-2014 I worked for 3 Kings Environmental conducting Phase I ESA reports, asbestos and lead surveys. In 2011 I started my own company primarily providing erosion control services (CESCL Certified) and Phase I ESA reports.

I have been re-employed with Environmental Technology Consultants in 2015 for wetland delineation consulting.

A) Landscape Setting and Land Use:

The subject property is a 38.95 Acre parcel in a rural residential area that is on a valley floor at approximately 787' in elevation. It is in the Sandy River watershed. The terrain is gently rolling in the general north to south direction on the majority of the property. The property is surrounded primarily by agricultural land, and partially by roads, rural single-family residences, and single-family residences in subdivisions. The property was a mixture of mature forests, grassy fields, and had a stream cutting through it. There is an easement with powerlines running through the middle of the property running northeast and southwest, and the powerline easement is also the high point of the property.

The area is zoned EFU Exclusive Farm Use district.

B) Site Alterations:

The subject site had a single-family residence, that has been demolished, and according to the Assessors information was built in 1915. Northern portions of the property have been used for agriculture uses such as a plant nursery, and possibly a raspberry farm. The center portion of the lot is used for a BPA powerline, and vegetation has been periodically mowed to prevent interference with the power lines. The south portion of the lot was forested with large 2nd growth coniferous trees when we first observed it. In 2017 the applicant used a brush hog to mow the blackberries on most of the site in order that surveyors could gain access. Much of the property that was historically farmed now has a dense cover of blackberries.

C) Precipitation Data and Analysis:

This wet season through March has been above average which makes using hydrology somewhat helpful, except it can make wetland areas appear larger than they are. The overall rainfall was above average for the area for the wet season.

Table 1. Recent observed precipitation data compared to the Wetland Evaluation Technique (WETS) tables.							
recrimque (VVETO)	NOAA observed	WETS	Precipitation a				
	monthly		30% char	Compared			
MONTH	precipitation at PDX	Avg (inches)	Less than	More Than	to WETS		
March 2016	4.73	3.71	2.85	4.31	avg Above		
April 2016	1.96	2.64	1.93	3.1	Below		
May 2016	1.72	2.38	1.44	2.88	Average		
June 2016	1.42	1.59	0.94	1.93	Average		
July 2016	0.66	0.72	0.31	0.89	Below		
August 2016	0.09	0.93	0.33	1.13	Below		
September 2016	1.69	1.65	0.65	2.06	Above		
October 2016	8.31	2.88	1.57	3.52	Above		
November 2016	6.83	5.61	3.72	6.73	Above		
December 2016	4.61	5.71	3.89	6.82	Average		
January 2017	4.13	5.07	2.98	6.16	Average		
February 2017	10.26	3.56	0.72	10.03	Above		
March 2017	7.26	3.68	1.10	7.89	Above		
Past 12 Months	65	44.31	25.27	62.43	Above		
Water year thru March 2017	43.09	41.01	25.86	58.35	Above		
March 2017	7.26	3.68	1.10	7.89	Above		
Shading represents				l, 2016.	1		

Approximately 6.99" of rain fell at the site in the 14 days prior to our first field visit, there was 5.34" of rain fall at the site 14 days prior to the second site visit.

The table below shows the recent precipitation data using Farmlogs.com:

Table 2. Precipitation data at the site as estimated by Farmlogs.com using Doppler							
radar. Dates 14 days prior to the field visits are shown.							
DATE	RAINFALL	YEAR- TO-	Field Activities				
		DATE					
15-Mar-17	1.03"	24.33"					
16-Mar-17	0.58"	24.91"					
17-Mar-17	0.04"	24.95"					
18-Mar-17	0.38"	25.33"					
19-Mar-17	0.80"	26.34"					
20-Mar-17	0	31.71"					
21-Mar-17	0.20"	26.34"					
22-Mar-17	0.41"	26.74"					
23-Mar-17	0.17"	26.92"					
24-Mar-17	0.88"	27.80"					

25-Mar-17	0.74"	28.55"	
26-Mar-17	0.11"	28.66"	
27-Mar-17	0.69"	29.34"	
28-Mar-17	0.23"	29.58"	
29-Mar-17	0.35"	29.93"	
30-Mar-17	0.38"	30.30"	First field day-started delineation studies, hydrology observed
31-Mar-17	0.23	30.53"	-
01-Apr-17	0	30.53"	
02-Apr-17	0.09"	30.63"	
03-Apr-17	0	30.63	
04-Apr-17	0	30.63	
05-Apr-17	0.03"	30.66	
06-Apr-17	0.16"	30.82"	
07-Apr-17	0.23"	31.05"	
08-Apr-17	0.13"	31.17"	
09-Apr-17	0.20"	31.38"	
10-Apr-17	0.11"	31.49"	
11-Apr-17	0.04"	31.52"	
12-Apr-17	0.36"	31.88"	
13-Apr-17	0.32"	32.20"	
14-Apr-17	0.19"	32.39"	
15-Apr-17	0.18"	32.57"	
16-Apr-17	0	32.57"	
17-Apr-17	0.11"	32.68"	
18-Apr-17	0.60"	33.27"	
19-Apr-17	0.03"	33.30"	
20-Apr-17	0.41"	33.72"	
21-Apr-17	0.13"	33.85"	
22-Apr-17	0	33.85"	
23-Apr-17	0.13"	33.98"	
24-Apr-17	0.70"	34.68"	
25-Apr-17	0.88"	35.56"	
26-Apr-17	0.69"	36.24"	
27-Apr-17	0.94"	37.18"	
28-Apr-17	0.35"	37.54"	Second field day-continued delineation studies, hydrology was observed, wetlands and stream were flagged, site was GPSed

<u>Deductions of Recent Weather Data</u>: The precipitation in 2017 was above average for the site when the delineation was conducted, there were saturated soils and shallow water tables at or above levels where hydric soils were observed.

The additional field work done for the Olson Road Widening was done in October 2018 following a long dry period. The area was dry at this time. This field work used plants, soils, and topography to make inferences about wetland hydrology for Track A and for the mitigation area for 26209-FP.

D) Methods: (site-specific methods for field investigation)

Wetland determinations and delineations discussed in this report were conducted in accordance with the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual ("the manual"), including regional supplements and applicable guidance, and supporting technical or guidance documents issued by the Department of State Lands.

We traversed the site to determine upland areas and wetland areas. We determined there were four wetland areas, two streams and a road side ditch. We named the wetlands Wetland "A", Wetland "B", Wetland "C", and Wetland "D" to be able to differentiate between the four.

The subject site was a mixture of abandoned agricultural areas, wetland areas, mature forested areas, and a mowed BPA right of way. There were areas that were over run by Himalayan blackberries especially in Wetland "A" and Wetland "B" which was at approximately 90%.

We dug soil test pits to a general depth of 18" bgs. The soils on this site was primarily a red parent color, about 7.5YR 3/2. We relied on hydric soils, hydrology and vegetation to make our wetland determinations.

We set wetland flags around the wetlands, Streams 1 and 2, and the drainage ditch.

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

NOTE: Descriptions for wetlands "A" and "D" and stream #1 are removed from this report as they were removed from the study areas as described above.

Offsite water comes onto this property from at least five locations, and is responsible for most of the wetland hydrology seen on the property:

- 1. Two culverts convey water from the North side of Kelso road to a ditch along the North end of the subject property. These are old concrete culverts.
- 2. Stream 2 enters the property on east side between Kelso Road and the BPA powerline easement. It appears that Stream 2 is a natural drainage way that has been substantially ditched and re-routed from its original course. It flows west and south across the property and leaves the property near the middle of the west property line.
- 3. Water flows through a culvert under SE Jewelberry Road and enters the study area at the East end of Track "A". That water flows East to West across Track "A" which is contiguous with small wetland area known as "Wetland D" in WD2017-0410.
- 4. Stormwater from SE Jewelberry Road is piped into a reverse French drain on the East side of the mitigation area for 26209-FP, and some of the hydrology for 26209-FP is supplied by that French drain, and some of it comes from Track "A".
- 5. Roofs on houses on the North side of Track "A" have been piped and discharge into Track "A". This was done as part of a wetland enhancement project to increase the hydrology of Track "A".

A storm drain under Olson Road drains Track "A", Wetland "D", and 26209-FP, and the elevation of the inlet for that drain determines the amount of ponding in the depressional wetland areas behind it.

Kelso Road Ditch, 2,439 SQFT, 0.056 Acres, 252 Feet long. Two culverts convey water under Kelso Road from the North side and bring the great majority of water that feeds this ditch. It is believed to be temporarily flooded during wet weather and for relatively short periods of time afterwards. There is little vegetation, other than blackberries, and water quality appears to be quite low. The Cowardin classification is Riverine, Intermittent, Unconsolidated Bottom, Mud, Temporarily Flooded, R4UBA.

Stream #2, 3,560 SQFT, 0.082 Acres, 1,017 Feet Long. Stream #2 is a natural drainage that has been ditched and straightened. It enters the property on the eastern boundary and flows across in a South-West direction, leaving the property on the west side. Its average width is about 3', though the upper area broadens out a bit into an area we called Wetland "B", and the lower end also broadens out into an area we called Wetland "C". The bottom is mud and debris, and a lot of blackberry mulch when we saw it. Considering its position high in the drainage, small size and low flow when we saw it during some pretty wet weather, we suspect it is has only seasonal flows and dries up in the summer. The Cowardin classification is Riverine, Intermittent, Unconsolidated Bottom, Mud, Seasonally Flooded, Partly Drained/Ditched, or R4UB3Cd.

Wetland "B", 2,225 SQFT, 0.051 Acres. Wetland "B" is a small depressional wetland next to Stream #1. Some water enters from the property to the East as part of the same basin that Stream #2 runs through. Most of the wetland appear to be caused by high groundwater tables. Although the lower end connects to Stream #1, water exchange is mostly subsurface, and from the wetland to the stream. Areas of the wetland that are inundated or saturated to the surface have little vegetation. The area is densely shaded by trees rooted both in and outside of the wetland area. The Cowardin classification is Palustrine, Unconsolidated Bottom, Mud, Seasonally flooded/saturated. HGM classification is depressional wetland.

<u>Wetland "C", 5,669 SQFT, 0.191 Acres</u>. Wetland "C" spans Stream #2 on both sides, it is generally sloped throughout. There are some small puddled areas on the North side that are probably old tire ruts, and holes created by trees toppling over, and some very shallow inundated areas on the South side, perhaps up to 1/2 inch deep. The hydrology appears to be supported by high ground water tables, and poor drainage.

The Cowardin classification is Palustrine, Scrub Shrub, Broad-Leaved Deciduous, Saturated, or PSS1B. The HGM classification is sloped wetland.

Track "A", 22,601 SQFT, 0.520 Acres. Track "A" is the remainder of the wetland delineated by WD2000-0612. The name is taken from the plat map of the Sandy Bluff Anex. Portions of this wetland were covered when Jewelberry Road was extended around 2001, and it's size reduced from 30,299 to it's current 22,601 SQFT. The area (22,601 SQFT) is recorded as a deed in Book 124 page 020 in Clackamas County.

A portion of Track "A" was enhanced as part of a mitigation required by permit 26209-FP, (about 5,278 SQFT). No impacts in this enhanced area are required by the Olson Road Widening project.

ETC conducted hydrology and plant monitoring studies in 2005, 2006 and 2007, and concluded that the wetland footprint was at least as large as when we delineated the area in 2000. Permit 26209-FP also provides that roof drains from the new housing development be directed to the wetland to provide additional hydrology.

Track "A" wetland is sloped in the upper northeastern part, but then becomes more of a depressional wetland its lower southwestern part due primarily to some impounding caused by the height of the outlet under Olson Road. The impound is caused by the outlet that drains under Olson Road.

The Cowardin Classification is Palustrine Forested Broadleaf Deciduous Seasonally Flooded, or PFO1C. The HGM classification ranges from sloped to depressional.

<u>Track "E" Mitigation area for 26209-FP, 10,236 SQFT, 0.235 Acres</u>. Track "E" is 13,882 SQFT in area, and permit 26209-FP required that 10,236 SQFT be converted to a wetland area. The name "Track "E", is also taken from the plat map for the Sandy Bluff Anex.

A hydrology monitoring study conducted by ETC in the Spring of 2007 confirmed that at least 10,236 SQFT met the hydrology standard for being considered a wetland. We have used the 10,236 SQFT figure as the area of wetland as it is both close to reality, and because that particular figure is relevant to the remove/fill permits NWP2018-473 and 61489-FP.

Stormwater from Jewelberry Road is piped into a reverse French drain that was constructed on the east side of Track "E". The purpose of this was to deliver additional water to the mitigation area.

A small shallow horse shoe shaped pond about 4,267 SQFT in area was excavated in about the middle of Track "E", and the hydrology monitoring study conducted in 2007 found it to be flooded to a depth of about 6".

We observed this area from the roads in 2017 when performing the delineation on lot 2200, and most of the areas that were not ponded were covered by a very robust growth of blackberries. At that time we did not know we needed to survey the area for the Olson Road Widening project, and so we did not attempt to penetrate the blackberries for a closer look. The horse shoe pond was still ponded, and it was fringed with Carex and Juncus, at least from what we could tell peering through the blackberries from the road.

In October 2018 when we were told to include Track "E" in our delineation report, the blackberries and any other vegetation mixed in with them had been mowed down in preparation for the road work. The mowing was roughly a 40' strip along Olson Road that would become the new roadway, plus some additional blackberries up into Track "A". Unfortunately this mowing and that our observations were in October following a dryer than normal summer, made it difficult to delineate the exact boundaries of the wetland based on Corps criteria. In our opinion there is no reason to believe that the boundaries were any different than determined in the 2007 hydrology monitoring study. We are therefore reporting the same wetland areas as were reported then, which are also the same as those in the permit documents.

The Cowardin classification is Palustrine, Scrub Shrub, Broad-Leaved Evergreen, Saturated, (PSS3B), and Palustrine, Emergent, Persistent, Seasonally Flooded, (PEM1C). The HGM classification is depressional.

SUMMARY: The table below summarizes the wetlands within the study area boundary of this report:

Table 3. Summary of wetland areas included in this study, WD2018-0656.									
Wetland or Waterway	Area SQFT	Area Acres							
Stream #2	R4UB3	1,017	3,560	0.082					
Wetland "B"	PUB3E		2,225	0.051					
Wetland "C"	PSS1B		8,336	0.191					
Track "A" wetland	PFO1C		22,601	0.519					
Track "E" wetland	PFO1C		10,236	0.235					
TOTAL		1,017	46,958	1.078					

F) Deviation from LWI or NWI:

The NWI map only shows Stream 2 on the map. The other streams and wetlands discussed in Section E are not shown on the NWI. We did not find a LWI for this area.

Stream 2 may have been re-routed from it's original course. We think the stream may have been moved North about 200 feet, and that it probably used to enter the east boundary of Lot 2200 about 200' South of it's current location. NWI maps also show the stream about 200' south of where it is. We have not surveyed the lot to the east, this is conjecture based on topo maps and what can be seen from the fence line. Stream 2 exits the property on the West property line probably where it always did, the exit is controlled by topography, it would have required some considerable reshaping of the terrain to change the drainage on the west side.

G) Mapping Method:

A property boundary survey and topographic survey was conducted by Tony Bolden, PLS 60377LS of Centerline Concepts. Centerline Concepts also located many of our wetland data plots and wetland boundary flags.

We used the TopCon GRS-1 GPS with a Topcon BR-1 beacon receiver for DGPS corrections for mapping some flags and plots either missed by the surveyors or added after their survey. These and other information shown in the figures were mapped as described in Section G.

H) Additional Information: (i.e., if needed to establish state jurisdiction)

None. All wetlands and waters described in this report are presumed to be jurisdictional.

I) Results and Conclusions:

<u>Hydrology</u>. The Hydrology on this site has been altered substantially from the historical conditions a long history of land use on this and neighboring properties, and by changes caused by road ways and their associated ditches and culverts. Stream 1 and Wetland "A" are thought to be created, or at least greatly enlarged by stormwater from higher in the drainage collected and concentrated into roadside ditches that discharge onto the Northern end of the property.

Wetland "D", and Track "A" have been altered extensively due to impounding created by Olson Road, and due to the intentional diversion of roof and road runoff to the area in order to increase the hydrology in Track "E". This has increased the wetland footprint, especially in the Wetland "D" area.

The wetlands in Track "E" are manmade, as discussed in the mitigation proposal in 26209-FP.

<u>Plants.</u> With exception of the forested areas, the plants in or near the wetlands were Blackberries with some herbaceous plants, mostly grasses, in the wettest areas. P13 represented a small wallow recently created by machinery which had water in it when we saw it. This was the only non-wetland plot determined not to be wetland based on vegetation only.

<u>Soils.</u> Soils in the many areas are red in color, about 5YR3/3, which tended to mask hydric soil features in the margin of the wetland. There was a presence of what appeared to be manganese. Distinct differences were apparent between the soils south of the stream which tended to be 10YR 3/2 a darker less red soil and in the disturbed pasture grasses area.

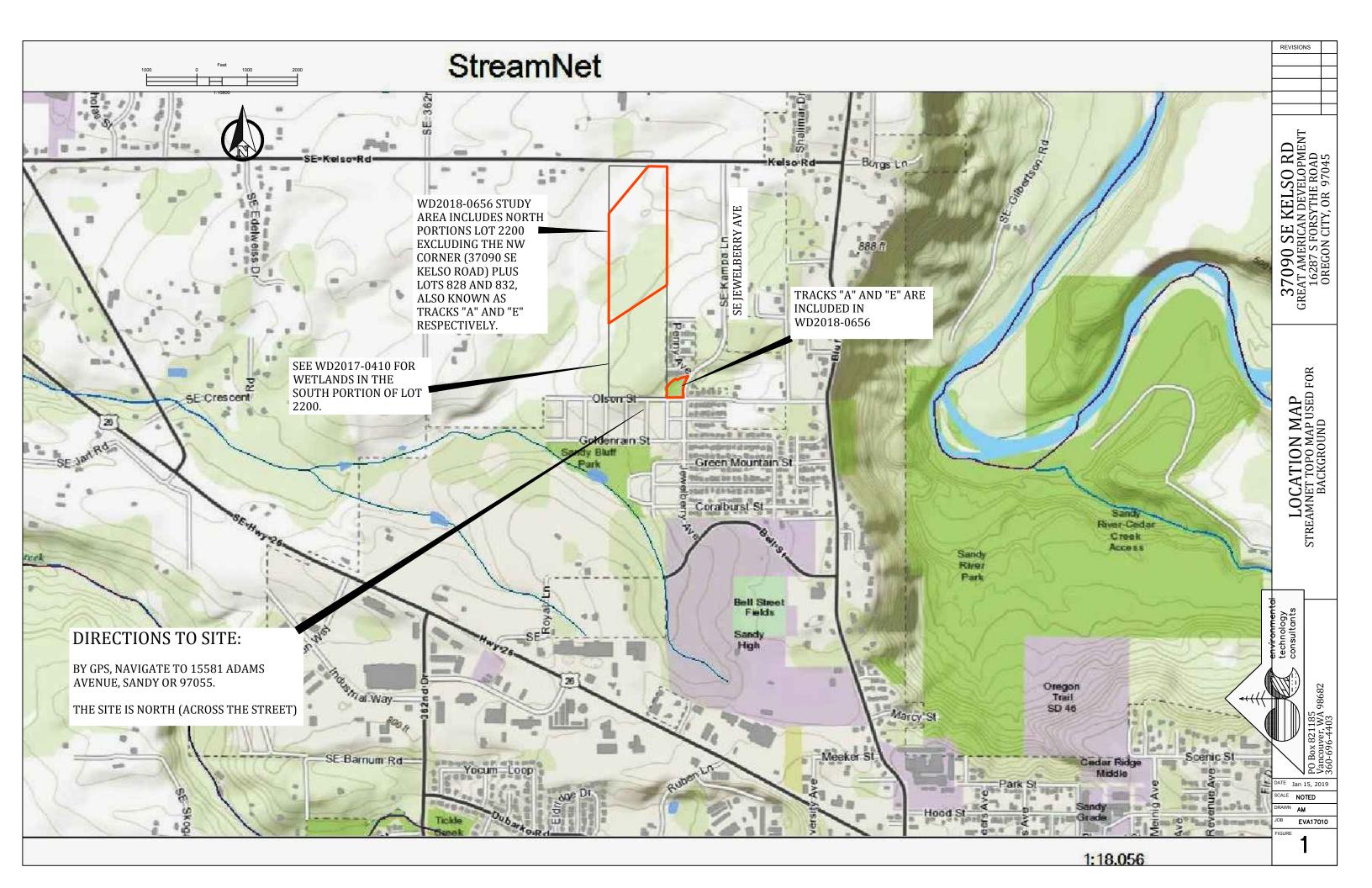
Disclaimer: OAR141-090-0035(12)(j):

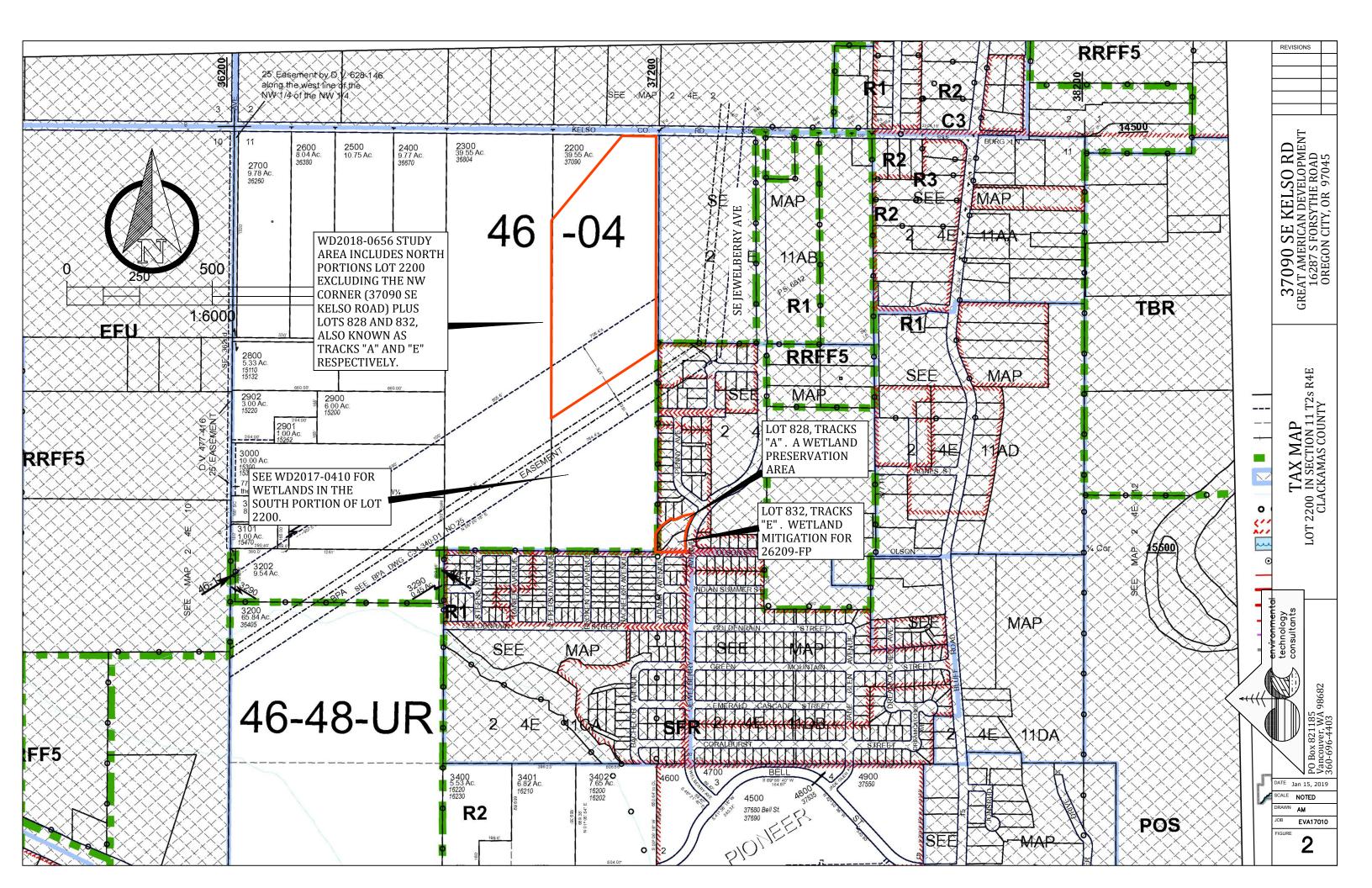
"This report documents the investigation, best professional judgment and conclusions of the investigator. It is correct and complete to the best of my knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been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

APPENDIX A - Maps:

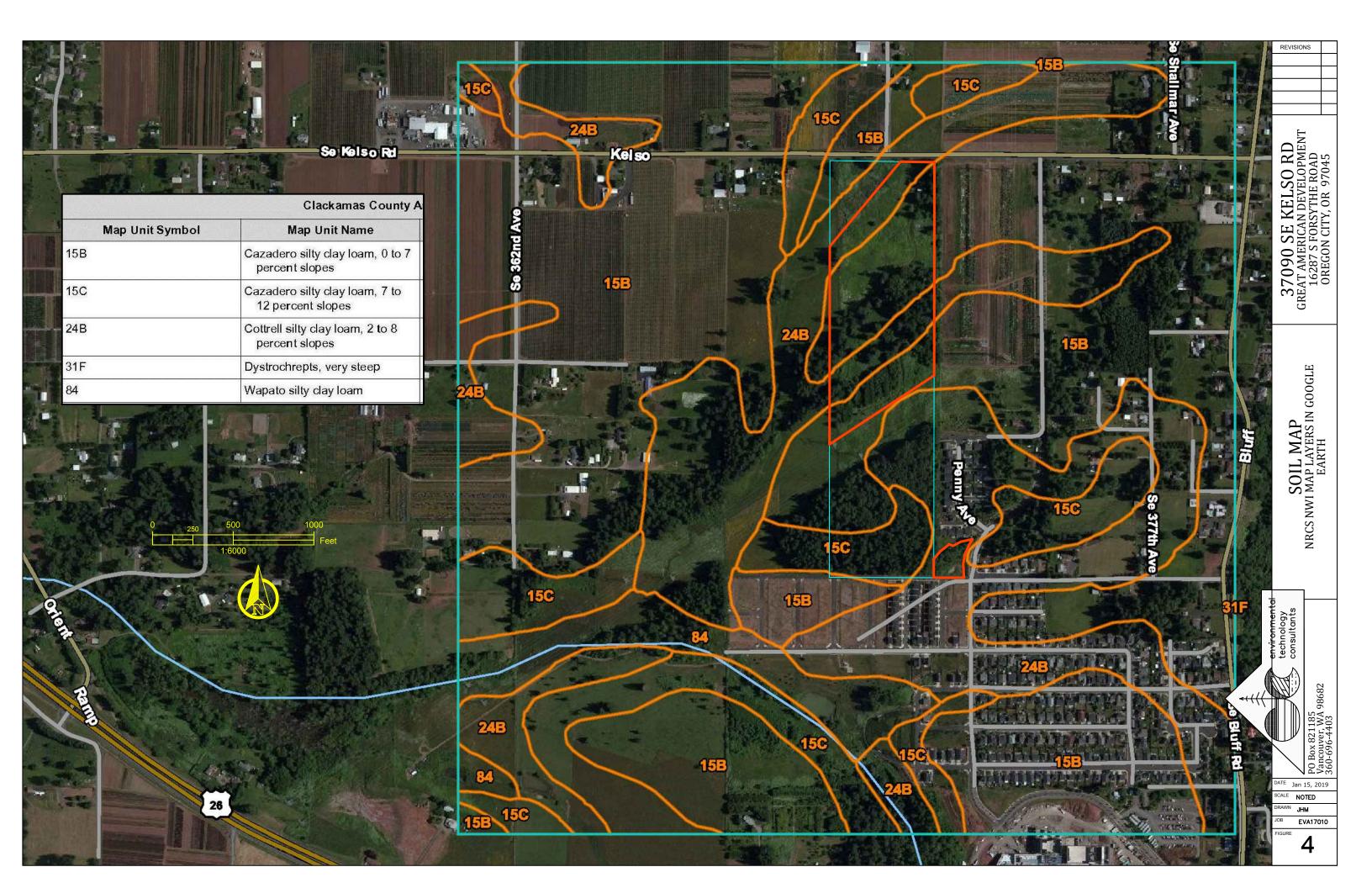
Figure 1: Figure 2: Figure 3: Figure 4: Figure 5:

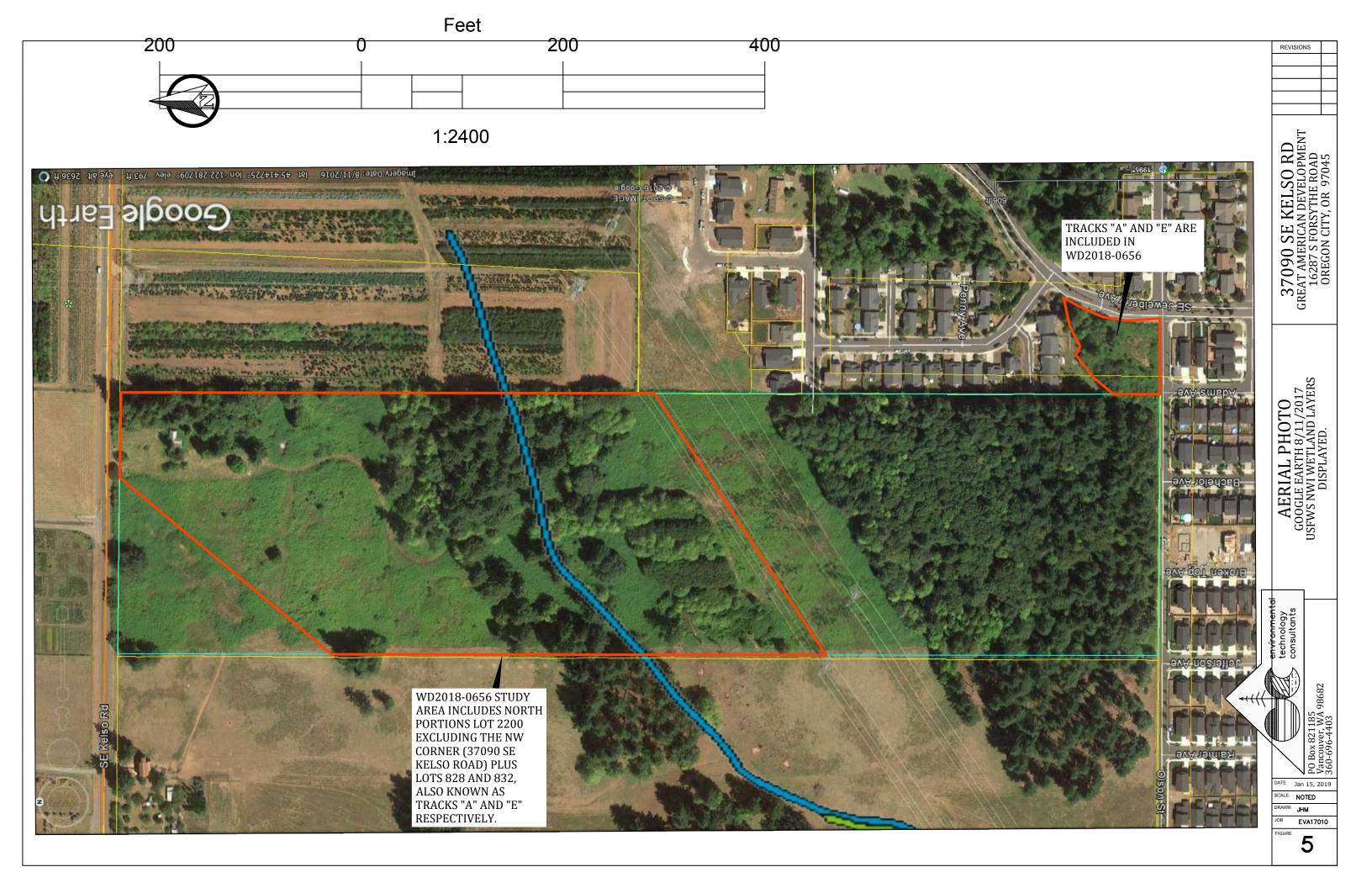
Location Map (Streamnet)
Tax Map
NWI Map
Soil Map
Aerial Photo (Google Earth 2017)
Wetlands (Entire Study Area)
Wetlands (Detail of Olson Road Area) Figure 6A Figure 6B

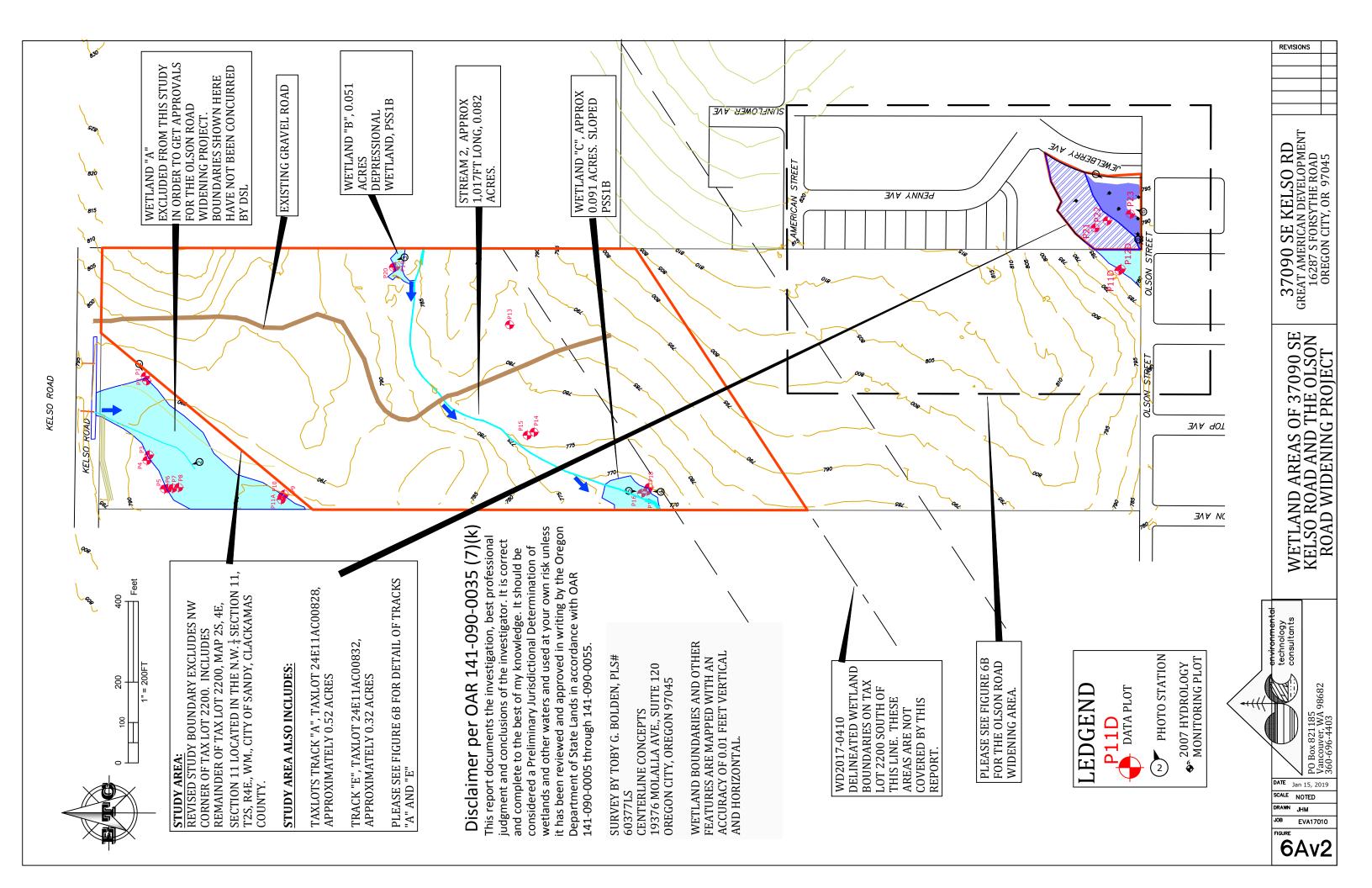


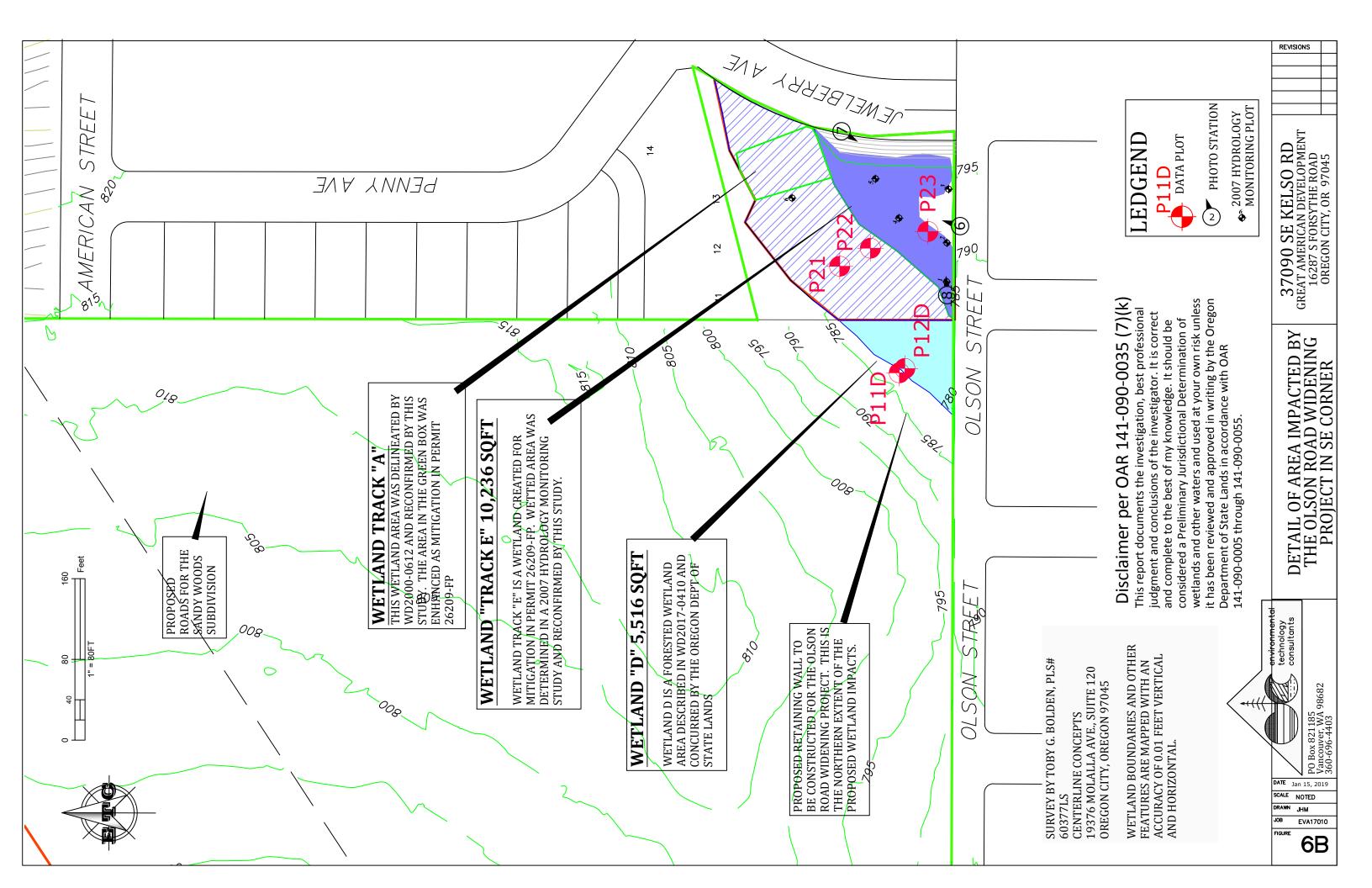












APPENDIX B - Data Forms

Plots:

P13-Upland
P14-Upland
P15-Upland
P16-Wetland
P17-Wetland
P18-Upland
P19-Wetland
P20-Upland
P21-Wetland by Best Professional Judgement (BPJ)
P22-Wetland
P23-Wetland

NOTE: Plots 1 through 12 describe the boundaries of wetlands "A" and "D", which have been removed from this study.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: 37090 Kelso RD		City/Cou	nty: Sandy/Cla	ckamas	_ Sampling Date: 4/28/2017		
Applicant/Owner: Joe Spaziani			Sampling Point: P13				
Investigator(s): John McConnaughey, PWS# 2009)	Section, Township, Range: T2S R4E S11					
Landform (hillslope, terrace, etc.): Broad swale		Local re	elief (concave, o	convex, none): Concave	Slope (%): <u>9%</u>	, 3	
Subregion (LRR): LRR-A	Lat: 45.24	Lat: <u>45.24934</u> Long: <u>-122.16889</u> Datum:					
Soil Map Unit Name: Cazado silt loam, Cottrell silty clay loam NWI classification: Not mapped							
Are climatic / hydrologic conditions on the site typi							
Are Vegetation, Soil <u>YES</u> , or Hydrology <u>YE</u>	-			Circumstances" presen			
Are Vegetation, Soil <u>TES</u> , or Hydrology <u>TE</u> Are Vegetation, Soil, or Hydrology _				d, explain any answers i			
			,	. ,	,		
SUMMARY OF FINDINGS – Attach si	te map showing	sampli	ing point lo	cations, transects	, important features, e	etc.	
Hydrophytic Vegetation Present? Yes	□ No ⊠		s the Sampled	ΙΛτορ			
Hydric Soil Present? Yes	⊠ No □		s the Samplet vithin a Wetlar		No.⊠		
Wetland Hydrology Present? Yes	⊠ No □		vitilii a vvetiai	id: Tes 🗆	110 🖾		
Remarks: A small depression in a forested are soils. In our opinion this was not a wetland unt filled with water.							
VEGETATION – Use scientific names	of plants.						
			ant Indicator	Dominance Test wo	rksheet:		
<u>Tree Stratum</u> (Plot size: <u>30' cir</u>)	· · · · · · · · · · · · · · · · · · ·		es? Status	Number of Dominant			
1. Acer macrophylum				That Are OBL, FACW	/, or FAC: <u>3</u> (A	A)	
2. Thuja plicata			<u>FAC</u>	Total Number of Dom		~`	
3				Species Across All St	rata: <u>9</u> (B	3)	
4. Sapling/Shrub Stratum (Plot size: 30' cir)		= Tota		Percent of Dominant S That Are OBL, FACW	Species /, or FAC: <u>33%</u> (A	√B)	
1. Sambucus racemosa	30	Υ	FACU	Prevalence Index wo	orksheet:		
2. Corylus cornuta	<u>15</u>	Y	FACU	Total % Cover of:	: Multiply by:	•	
3. Rubus idaeus				OBL species 0	x 1 = <u>0</u>		
4				FACW species 0	x 2 = <u>0</u>		
5				FAC species 0	x 3 = <u>0</u>		
(5)	<u>47</u>	_ = Tota	al Cover		x 4 = <u>0</u>		
Herb Stratum (Plot size: 30' cir)	00		FAOU		x 5 = <u>0</u>		
1. Streptopus amplexifolius		<u>Y</u>		Column Totals: 0	(A) <u>0</u>	(B)	
2. Symphoricarpos albus		_ <u>Y</u>	FACU	Prevalence Inde	$\Delta x = B/A = 0$		
3. Rubus armeniacus		_ <u>Y</u>	<u>FAC</u>	Hydrophytic Vegetat			
4. Rubus spectabilis		_ <u>Y</u> Y		☐ Dominance Test i			
5. Polystichum munitum		<u>r</u> N	<u>FACU</u> <u>FAC</u>	☐ Prevalence Index			
Adiantum aleuticum Juncus sp			FAC FAC	_	aptations ¹ (Provide supporting	ıa	
8			<u> 1 AC </u>		rks or on a separate sheet)	3	
Woody Vine Stratum (Plot size:)	88		al Cover	☐ Problematic Hydro	ophytic Vegetation ¹ (Explain)		
1					soil and wetland hydrology mu sturbed or problematic.	ıst	
	180		al Cover	Hydrophytic Vegetation Present? Y	∕es		
% Bare Ground in Herb Stratum 0	% Cover of Biotic	Crust 09	<u>//o</u>	i resent:			
Remarks:							

(inches)	Matrix		R	edox Feature				
,	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
)-6	7.5YR3/3	100			- 		Silt loam	
6-10	7.5YR2.5/2	100					silty clay loam	
0-18	7.5YR4/4	80	7.5YR2.5/2	20	С	<u>M</u>	Silty clay loam	
 Гуре: C=Co	oncentration, D=De	epletion, RN		. CS=Covered	d or Coat	ed Sand G	rains. ² Location: PL=Pore Lining, M=Matrix	X.
			II LRRs, unless o				Indicators for Problematic Hydric Soils	
Histosol ((A1)		☐ Sandy Redo	x (S5)			☐ 1 cm Muck (A9) (LRR C)	
	ipedon (A2)		☐ Stripped Mar				2 cm Muck (A10) (LRR B)	
Black Hist			☐ Loamy Muck	y Mineral (F1	1)		Reduced Vertic (F18)	
Hydrogen	Sulfide (A4)		☐ Loamy Gleye	d Matrix (F2)			☐ Red Parent Material (TF2)	
Stratified	Layers (A5) (LRR	C)	☐ Depleted Mat	trix (F3)			☐ Other (Explain in Remarks)	
1 cm Mucl	k (A9) (LRR D)		☐ Redox Dark	Surface (F6)				
Depleted	Below Dark Surfa	ce (A11)	Depleted Da	rk Surface (F	7)			
Thick Dar	rk Surface (A12)		☐ Redox Depre	essions (F8)			³ Indicators of hydrophytic vegetation and	
] Sandy Μι	ucky Mineral (S1)						wetland hydrology must be present,	
] Sandy Gle	eyed Matrix (S4)						unless disturbed or problematic.	
estrictive L	ayer (if present):							
Type:			_					
Depth (inc	ches):		_				Hydric Soil Present? Yes ⊠ No □	
emarks: Sar	mpled in standing	water mak	ng it hard to read o	colors				
DROLOG	Y							
	Y Irology Indicators	s:						
etland Hyd	Irology Indicators		ed; check all that a	ipply)			Secondary Indicators (2 or more require	red)
etland Hyd	drology Indicators ators (minimum of		ed; check all that a				Secondary Indicators (2 or more requirements) Water Marks (B1) (Riverine)	red)
/etland Hyd rimary Indica] Surface V	drology Indicators ators (minimum of		☐ Salt Cru					
/etland Hyd rimary Indica] Surface W] High Wate	drology Indicators eators (minimum of Water (A1) er Table (A2)		☐ Salt Cru ☐ Biotic C	ust (B11)	s (B13)		☐ Water Marks (B1) (Riverine)	
Vetland Hydrimary Indicate Surface Wall High Wate Saturation	drology Indicators eators (minimum of Vater (A1) er Table (A2) n (A3)	one requir	☐ Salt Cru ☐ Biotic C	ust (B11) Frust (B12) Invertebrates	. ,		 □ Water Marks (B1) (Riverine) □ Sediment Deposits (B2) (Riverine) □ Drift Deposits (B3) (Riverine) 	
Vetland Hydrimary Indicate Surface Wall High Wate Saturation Water Ma	drology Indicators eators (minimum of Water (A1) er Table (A2)	one requir	☐ Salt Cru ☐ Biotic C ☐ Aquatic ☐ Hydrog	ust (B11) Frust (B12) Invertebrate en Sulfide Oc	dor (C1)	Living Roo	 □ Water Marks (B1) (Riverine) □ Sediment Deposits (B2) (Riverine) □ Drift Deposits (B3) (Riverine) □ Drainage Patterns (B10) 	
Vetland Hydrimary Indicate Surface Warface Warface Warface Warface Saturation Water Ma	drology Indicators eators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Non rive t Deposits (B2) (No	one requirerine)	Salt Cru Biotic C Aquatic Hydrog Oxidize	ust (B11) Frust (B12) Invertebrates en Sulfide Oc d Rhizospher	dor (C1) res along	_	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2)	
Vetland Hydrimary Indicated Warface Waster Magnetic Water Magnetic Sediment Drift Deposits	drology Indicators eators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Non rive t Deposits (B2) (No	one requirerine)	Salt Cru Biotic C Aquatic Hydrog Oxidize Presen	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizosphei ce of Reduce	dor (C1) res along d Iron (C	4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8))
Vetland Hydrimary Indicated Williams Water Maler	drology Indicators eators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Non rive t Deposits (B2) (No osits (B3) (Non rive Soil Cracks (B6)	erine) on riverine verine)	Salt Cru Biotic C Aquatic Hydrog Oxidize Present	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizosphei ce of Reduce Iron Reduction	dor (C1) res along d Iron (C on in Tille	4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imager)
Vetland Hyd Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	drology Indicators eators (minimum of Water (A1) er Table (A2) n (A3) arks (B1) (Non rive t Deposits (B2) (No	erine) on riverine verine)	Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizosphei ce of Reduce	dor (C1) res along d Iron (C on in Tille C7)	4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8))
Vetland Hyd rimary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta	Arology Indicators eators (minimum of Vater (A1) er Table (A2) en (A3) earks (B1) (Non rive t Deposits (B2) (No eosits (B3) (Non rive Soil Cracks (B6) en Visible on Aerial eained Leaves (B9) vations:	erine) on riverine verine) Imagery (B	Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizosphei ce of Reduce Iron Reduction uck Surface (i Explain in Re	dor (C1) res along d Iron (C on in Tille C7) marks)	4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imager Shallow Aquitard (D3))
Vetland Hyd Primary Indicate Surface W High Water Saturation Water Ma Sediment Drift Depo Surface S Inundation Water-Sta	drology Indicators eators (minimum of Vater (A1) er Table (A2) n (A3) erks (B1) (Non rive t Deposits (B2) (No osits (B3) (Non rive Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) vations: er Present?	erine) on riverine verine) Imagery (B	Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizospher ce of Reduce Iron Reduction uck Surface (Explain in Reduction	dor (C1) res along d Iron (C on in Tille C7) marks)	4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imager Shallow Aquitard (D3))
Primary Indicators Surface V High Wate Saturation Water Ma Sediment Drift Depo	Arology Indicators eators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Non rive t Deposits (B2) (No osits (B3) (Non rive Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) vations: er Present? Present?	erine) on riverine verine) Imagery (B	Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizosphei ce of Reduce Iron Reduction uck Surface (i Explain in Re	dor (C1) res along d Iron (C on in Tille C7) marks)	4)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imager Shallow Aquitard (D3))
Vetland Hyd Primary Indica Surface W High Water Saturation Drift Depo Surface S Inundation Water-Sta Field Observ Surface Water Vater Table Footbatter Table Footbatter Saturation Proincludes cap	drology Indicators eators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Non rive t Deposits (B2) (No osits (B3) (Non rive Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) vations: er Present? Present? esent?	erine) on riverine verine) Imagery (B	Salt Cru Biotic C Aquation Hydrog Oxidize Present Recent Thin Mu Other (I	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizospher ce of Reduce Iron Reduction uck Surface (Explain in Ref hes): 0 hes): hes):	dor (C1) res along d Iron (C on in Tille C7) marks)	4) d Soils (C6	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) □ Dry-Season Water Table (C2) □ Crayfish Burrows (C8) Saturation Visible on Aerial Imager □ Shallow Aquitard (D3) □ FAC-Neutral Test (D5))
Vetland Hydrimary Indicate Water Male Surface Surface Surface Surface Surface Surface Surface Surface Water-State Surface Water Table Fraturation Prencludes cap	drology Indicators eators (minimum of Vater (A1) er Table (A2) n (A3) arks (B1) (Non rive t Deposits (B2) (No osits (B3) (Non rive Soil Cracks (B6) n Visible on Aerial ained Leaves (B9) vations: er Present? Present? esent?	erine) on riverine verine) Imagery (B	Salt Cru Biotic C Aquatic Hydrog Oxidize Present Recent Thin Mu Other (I	ust (B11) crust (B12) Invertebrates en Sulfide Oc d Rhizospher ce of Reduce Iron Reduction uck Surface (Explain in Ref hes): 0 hes): hes):	dor (C1) res along d Iron (C on in Tille C7) marks)	4) d Soils (C6	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) ots (C3) □ Dry-Season Water Table (C2) □ Crayfish Burrows (C8) Saturation Visible on Aerial Imager □ Shallow Aquitard (D3) □ FAC-Neutral Test (D5))

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: 37090 Kelso RD	C	ity/County:	Sandy/Clad	ckamas	Sampling Date: 4/28/2017	7
Applicant/Owner: <u>Joe Spaziani</u>			Sampling Point: P14			
Investigator(s): John McConnaughey, PWS# 2009		s	ection, Tov	vnship, Range: <u>T2S R4E</u>	S11	
Landform (hillslope, terrace, etc.): Broad swale	I	_ocal relief	(concave, d	convex, none): Concave	Slope (%): <u>9</u>	9%
Subregion (LRR): <u>LRR-A</u>	_ Lat: 45.249	927		Long: -122.16948	Datum:	
Soil Map Unit Name: <u>Cazado silt loam, Cottrell silty clay loar</u>						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation <u>Y,</u> Soil <u>Y,</u> or Hydrology <u>Y</u> significantly distur	-					
Are Vegetation, Soil, or Hydrology natu				d, explain any answers i		
SUMMARY OF FINDINGS – Attach site map	showing s	ampling	point lo	cations, transects	, important features	, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wes □ No □ Wetland Hydrology Present? Yes □ No □ Remarks: Above average rainfall in March and April. Are	a is gently sl	within oped toward		nd? Yes ☐ B". When we observed i	t, it had recently been brus	shed
with a hydro-ax to clear the blackberries for surveyors. T VEGETATION – Use scientific names of plant		y lett many	tire ruts no	w filled with water in this	wet weather.	
Frank	Absolute	Dominant	Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30' S semi-cir)	% Cover	Species?		Number of Dominant S	Species	
Acer macrophylum		<u>Y</u>		That Are OBL, FACW	, or FAC: <u>2</u>	(A)
2. Thuja plicata				Total Number of Domi	inant	
3				Species Across All Str	rata: <u>3</u>	(B)
4		= Total Co		Percent of Dominant S That Are OBL, FACW		(A/B)
1				Prevalence Index wo	orksheet:	
2.				Total % Cover of:	Multiply by:	
3.				OBL species 0	x 1 = <u>0</u>	_
4				FACW species 0	x 2 = <u>0</u>	_
5				FAC species 0	x 3 = <u>0</u>	_
	0	= Total Co	over	FACU species 0	x 4 = <u>0</u>	_
Herb Stratum (Plot size: 30' S semi-cir)				UPL species 0	x 5 = <u>0</u>	_
1. Rubus armeniacus	80	<u>Y</u>	FAC	Column Totals: 0	(A) <u>0</u>	_ (B)
2	· -			Prevalence Inde	ax = B/A = 0	
3 4				Hydrophytic Vegetat		
5				□ Dominance Test is		
6				☐ Prevalence Index	is ≤3.0¹	
7					aptations¹ (Provide support ks or on a separate sheet)	
8		= Total Co	over	☐ Problematic Hydro	ophytic Vegetation ¹ (Explai	n)
1				¹ Indicators of hydric so be present, unless dis	oil and wetland hydrology r turbed or problematic.	must
2		= Total Co	over	Hydrophytic Vegetation Present? Y	es⊠ No □	
Remarks: Blackberries recently mowed, originally they				. 1000111.		

Depth	Matrix			x Feature	S T. c 1	1 = -2	Tandiin	Democratic
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-7	7.5YR3/2	100					Silt loam	Lot's of roots
7-12	7.5YR3/3	100					Silty loam	
12-18	7.5YR3/3	<u>95 5</u>	5YR4/4	5	<u>C</u>	<u>M</u>	Silt loam	
		 		_				_
Type: C-C	Concentration, D=De	nletion PM-I	Reduced Matrix C	S-Covere	d or Coate	ad Sand G	raine 2	Location: PL=Pore Lining, M=Matrix.
	Indicators: (Applie					eu Sanu G		eators for Problematic Hydric Soils ³ :
☐ Histosol			☐ Sandy Redox (S		,			cm Muck (A9) (LRR C)
	oipedon (A2)		☐ Stripped Matrix					cm Muck (A10) (LRR B)
☐ Black Hi			Loamy Mucky N	. ,	1)			Reduced Vertic (F18)
	en Sulfide (A4)		☐ Loamy Gleyed N				□ Re	ed Parent Material (TF2)
☐ Stratified	d Layers (A5) (LRR		☐ Depleted Matrix				□ O:	ther (Explain in Remarks)
1 cm Mu	ck (A9) (LRR D)		☐ Redox Dark Su	` ,				
•	d Below Dark Surfac	. ,	Depleted Dark		7)			
	ark Surface (A12)		☐ Redox Depress	ions (F8)				cators of hydrophytic vegetation and
•	Mucky Mineral (S1)							etland hydrology must be present,
	Bleyed Matrix (S4)						ur	nless disturbed or problematic.
	Layer (if present):							
Type:								
Type: Depth (in	nches):		ery. Lot's of tree ro	oots.			Hydric S	oil Present? Yes □ No ⊠
Type: Depth (in Remarks: In	nches): area not as disturbe		ery. Lot's of tree ro	oots.			Hydric S	Soil Present? Yes □ No ⊠
Type:	area not as disturbe GY rdrology Indicators	ed by machin						
Type: Depth (in Remarks: In TDROLOG Wetland Hy Primary Indi	area not as disturbe GY drology Indicators cators (minimum of	ed by machin	check all that app	ly)			Se	econdary Indicators (2 or more required)
Type: Depth (in Remarks: In 'DROLOG Wetland Hy Primary Indi Surface	area not as disturbe GY rdrology Indicators cators (minimum of Water (A1)	ed by machin	check all that app	ly) (B11)			Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine)
Type: Depth (in Remarks: In 'DROLOG Wetland Hy Primary Indi Surface High Wa	area not as disturbed GY rdrology Indicators cators (minimum of Water (A1) ater Table (A2)	ed by machin	check all that app ☐ Salt Crust ☐ Biotic Crus	(B11) st (B12)			<u>Se</u>	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type: Depth (in Remarks: In 'DROLOG Wetland Hy Primary Indi	area not as disturbed	ed by machin	check all that app Salt Crust Biotic Crust Aquatic Inv	(B11) st (B12) vertebrate	` ,		<u>Se</u>	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type: Depth (in Remarks: In 'DROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M	area not as disturbed area (Minimum of Water (A1) area (A2) on (A3) area (B1) (Non rive	ed by machin : one required; rine)	check all that app Salt Crust Biotic Crus Aquatic In	ly) (B11) st (B12) vertebrate Sulfide Od	dor (C1)		Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Type: Depth (in Remarks: In 'DROLOG Wetland Hy Primary Indi	area not as disturbed area (minimum of water (A1) area (A2) on (A3) arks (B1) (Non rive not Deposits (B2) (No	ed by machin : one required; rine) n riverine)	check all that app Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrate Sulfide Och	dor (C1) res along	•	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Depth (in Remarks: In TDROLOG Wetland Hy Primary Indi	area not as disturbed area (Minimum of Water (A1) area (A2) on (A3) area (B1) (Non rive not Deposits (B2) (No posits (B3) (Non rive	ed by machin : one required; rine) n riverine)	check all that app Salt Crust Biotic Crus Aquatic Int Hydrogen Oxidized F	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce	dor (C1) res along ed Iron (C4	1)	Se	wecondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type:	area not as disturbed GY rdrology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) larks (B1) (Non rive ont Deposits (B2) (No cosits (B3) (Non rive Soil Cracks (B6)	ed by machin : one required; rine) on riverine) erine)	check all that app Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence	ly) (B11) st (B12) vertebrate Sulfide Oo Rhizosphe of Reduce n Reducti	dor (C1) res along ed Iron (C4 on in Tille	1)	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Type: Depth (in Remarks: In TOROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Dep Surface Inundation	rarea not as disturbed area (A1) ater (A1) ater (A2) on (A3) area (B1) (Non rive not Deposits (B2) (Non rive Soil Cracks (B6) on Visible on Aerial II	ed by machin : one required; rine) on riverine) erine)	check all that app Salt Crust Biotic Crus Aquatic Int Hydrogen Oxidized F Presence of Recent Iro	ly) (B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (dor (C1) res along ed Iron (C4 on in Tille	1)	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Type: Depth (in Remarks: In TOROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Dep Surface Inundation	area not as disturbed GY rdrology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) larks (B1) (Non rive ont Deposits (B2) (No cosits (B3) (Non rive Soil Cracks (B6)	ed by machin : one required; rine) on riverine) erine)	check all that app Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence	ly) (B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (dor (C1) res along ed Iron (C4 on in Tille	1)	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C
Type:	area not as disturbed area (Minimum of Mater (A1) area (A2) on (A3) arks (B1) (Non rive not Deposits (B2) (Non rive Soil Cracks (B6) on Visible on Aerial Intained Leaves (B9)	ed by machin : one required; rine) on riverine) erine)	check all that app Salt Crust Biotic Crus Aquatic Int Hydrogen Oxidized F Presence of Recent Iro	ly) (B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (dor (C1) res along ed Iron (C4 on in Tille	1)	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Type:	drology Indicators cators (minimum of water (A1) ater Table (A2) on (A3) larks (B1) (Non rive on Deposits (B2) (No cosits (B3) (Non rive Soil Cracks (B6) on Visible on Aerial Intraliance Leaves (B9)	ed by machin : one required; rine) on riverine) erine)	check all that app Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (olain in Re	dor (C1) res along ed Iron (C4 on in Tille	1)	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Type:	reaches): In area not as disturbed GY Indrology Indicators Cators (minimum of Mater (A1) In area (A2) In (A3) In (B1) (Non rive Int Deposits (B2) (Non rive Int Deposits (B3) (Non rive Int Deposits (B6) In Visible on Aerial Introduced (B9) I	ed by machin : one required; rine) on riverine) erine) magery (B7)	check all that app Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	ly) (B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re	dor (C1) res along ed Iron (C4 on in Tille	1)	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Type:	area not as disturbed area (Manuella	ed by machin : one required; rine) n riverine) erine) magery (B7)	check all that app Salt Crust Biotic Crus Aquatic Int Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) (B12) vertebrate Sulfide Or Rhizosphe of Reduce n Reducti Surface (olain in Re	dor (C1) res along ed Iron (C4 on in Tille	I) d Soils (C6	Se	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3)
Type:	area not as disturbed area (Malarka (rine) magery (B7) Yes \(\) No Yes \(\) No	check all that app Salt Crust Biotic Crus Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	ly) (B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reducti Surface (olain in Re s):	dor (C1) res along ed Iron (C4 on in Tiller (C7) emarks)	d Soils (C6	ots (C3)	econdary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM

Project/Site: 37090 Kelso RD	City/County: Sar	ndy/Clackamas	Sampling Date: <u>4/28/2017</u>
Applicant/Owner: <u>Joe Spaziani</u>		State: OR	Sampling Point: P15
Investigator(s): John McConnaughey, PWS# 2009	Secti	ion, Township, Range: <u>T2S F</u>	R4E S11
Landform (hillslope, terrace, etc.): hillslope	Local relief (cor	ncave, convex, none): conca	ve Slope (%): <u>1%</u>
Subregion (LRR): <u>LRR-A</u>	Lat: <u>45.24927</u>	Long: -122.16948	Datum:
Soil Map Unit Name: <u>Cazado silt loam, Cottrell silty clay lo</u>	oam	NWI classi	ification:
Are climatic / hydrologic conditions on the site typical for t			
Are Vegetation <u>Y,</u> Soil <u>Y,</u> or Hydrology significantl	y disturbed? Are "Norm;	al Circumstances" present?	Yes ☐ No ☒
Are Vegetation, Soil, or Hydrology na	aturally problematic? (If	f needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	p showing sampling po	oint locations, transec	ets, important features, etc.
Hydrophytic Vegetation Present? Yes ⊠ No Hydric Soil Present? Yes □ No Wetland Hydrology Present? Yes ⊠ No Remarks: Above average rainfall in March and April. Weather.	within a		□ No ☑ should have been waiting for dryer
└── VEGETATION – Use scientific names of pla	ints.		
Tree Stratum (Plot size: 30' cir)	Absolute Dominant Inc. <u>% Cover Species? S</u>	Number of Domina	ant Species
1			CW, or FAC: 1 (A)
2		Total Number of Di	
3 4		Species Across All	Strata: <u>1</u> (B)
Sapling/Shrub Stratum (Plot size: 30' cir)	= Total Cove	Percent of Domina That Are OBL, FAC	
1. Rubus armeniacus	<u>100</u> <u>Y</u> <u>FA</u>	C Prevalence Index	worksheet:
2		Total % Cover	of: Multiply by:
3		OBL species 0	x 1 = <u>0</u>
4			x 2 = <u>0</u>
5			x 3 = <u>0</u>
Herb Stratum (Plot size: 30' S semi-cir)	100 = Total Cove		x 4 = 0
1.			x = 0
2.		Column rotals. <u>0</u>	(A) <u>0</u> (B)
3.		Prevalence Ir	ndex = B/A = 0
4		Hydrophytic Vege	tation Indicators:
5			st is >50%
6		Prevalence Ind	
7 8		data in Ren	Adaptations ¹ (Provide supporting narks or on a separate sheet)
Woody Vine Stratum (Plot size:)	= Total Cove	r Problematic Hy	drophytic Vegetation¹ (Explain)
1			c soil and wetland hydrology must disturbed or problematic.
2.	100 = Total Cove	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0 %	Cover of Biotic Crust 0%	Present?	Yes ⊠ No 🗌
Remarks: Data plots 14 & 15 are located where we co	uld find relatively undistrubed s	soils, that's why they aer so f	ar apart

Profile Desc	cription: (Describe	to the depti	h needed to docun	nent the	indicator	or confirm	n the absenc	e of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	<u>%</u> (Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
<u>0-8</u>	7.5YR2.5/3	100					Silt Ioam	Lot's of roots
<u>8-13</u>	7.5YR2.5/3	100		_			Silt loam	
13-18	7.5YR3/4	99 2	2.5N	1	С	M	Silt loam	
					- '			
	_					-		
	-			-				
-							-	
	oncentration, D=Dep					ed Sand G		ocation: PL=Pore Lining, M=Matrix.
-	Indicators: (Applie	cable to all L	RRs, unless other	rwise not	ed.)		Indicat	tors for Problematic Hydric Soils ³ :
Histosol	, ,		☐ Sandy Redox (S					m Muck (A9) (LRR C)
☐ Histic Ep			Stripped Matrix		• `			m Muck (A10) (LRR B)
☐ Black Hi			Loamy Mucky M					duced Vertic (F18)
	en Sulfide (A4) d Layers (A5) (LRR (Loamy Gleyed M					l Parent Material (TF2) er (Explain in Remarks)
	ck (A9) (LRR D)		☐ Depleted Matrix (☐ Redox Dark Sur					er (Explain in Remarks)
	d Below Dark Surfac		☐ Depleted Dark S	. ,	7)			
	ark Surface (A12)	, ,	☐ Redox Depressi	•	.,		³ Indica	tors of hydrophytic vegetation and
	Mucky Mineral (S1)		_ ·	` ,				land hydrology must be present,
☐ Sandy G	Sleyed Matrix (S4)						unle	ess disturbed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (in	iches):						Hydric So	il Present? Yes 🗌 No 🖂
Remarks: M	owing of blackberrie	s has disturb	ed this area leaving	g it more o	or less de	nuded with	lots of tire rut	S.
YDROLOG	SY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one required;	check all that apply	y)			Seco	ondary Indicators (2 or more required)
	Water (A1)		☐ Salt Crust ((B11)			□ \	Water Marks (B1) (Riverine)
	ater Table (A2)		☐ Biotic Crus	t (B12)				Sediment Deposits (B2) (Riverine)
	on (A3)		☐ Aquatic Inv	ertebrate	s (B13)			Orift Deposits (B3) (Riverine)
☐ Water M	larks (B1) (Non rive	rine)	☐ Hydrogen S	Sulfide Od	dor (C1)			Orainage Patterns (B10)
	nt Deposits (B2) (No		☐ Oxidized R	hizosphei	res along	Living Roc	ots (C3) 🔲 [Dry-Season Water Table (C2)
☐ Drift Dep	oosits (B3) (Non rive	erine)	☐ Presence of	of Reduce	d Iron (C	1)		Crayfish Burrows (C8)
☐ Surface	Soil Cracks (B6)		☐ Recent Iron	n Reductio	on in Tille	d Soils (C6	S) 🗆 S	Saturation Visible on Aerial Imagery (C9)
☐ Inundation	on Visible on Aerial I	magery (B7)	☐ Thin Muck	Surface (C7)			Shallow Aquitard (D3)
☐ Water-S	tained Leaves (B9)		☐ Other (Exp	lain in Re	marks)		□ F	FAC-Neutral Test (D5)
Field Obser				· 				
Surface Wat	ter Present?	∕es⊠ No∣	☐ Depth (inches	s): <u>0</u>				
Water Table	Present?	∕es⊠ No∣	☐ Depth (inches	s):				
Saturation P	pillary fringe)	∕es⊠ No∣	_ , ,					gy Present? Yes ⊠ No □
Describe Re (B4, no B9, l		n gauge, mor	nitoring well, aerial p	photos, pr	revious ins	spections),	if available: V	Vallow created by brush hog, no algal mat
Remarks:								

WETLAND DETERMINATION DATA FORM

Project/Site: <u>37090 Kelso RD</u>	c	ity/County: Sandy/Clad	ckamas Sampling Date: 4/28/2017
Applicant/Owner: <u>Joe Spaziani</u>			State: OR Sampling Point: P16
nvestigator(s): John McConnaughey, PWS# 2009		Section, Tov	wnship, Range: <u>T2S R4E S11</u>
_andform (hillslope, terrace, etc.): hillslope		_ocal relief (concave, o	convex, none): <u>Toe slope</u> Slope (%): <u>3%</u>
Subregion (LRR): <u>LRR-A</u>	Lat: <u>45.24</u> 8	377	Long: <u>-122.16980</u> Datum:
Soil Map Unit Name: <u>Cazado silt loam, Cottrell silty c</u>	lay loam		NWI classification:
Are climatic / hydrologic conditions on the site typical			
Are Vegetation <u>Y</u> , Soil <u>Y</u> , or Hydrology signific	cantly disturbed?	Are "Normal Circu	ımstances" present? Yes ☐ No ☒
Are Vegetation, Soil, or Hydrology			d, explain any answers in Remarks.)
-			cations, transects, important features, e
Hydrophytic Vegetation Present? Yes ⊠		Is the Sampled	d Area
Hydric Soil Present? Yes ⊠		within a Wetlar	
Wetland Hydrology Present? Yes ⊠ Remarks: Above average rainfall in March and Ap	<u> </u>	brough and channed	down you, south of stroom
Nemarks. Above average fairliali in March and Ap	ill. Brush nog went i	illough and chopped t	down veg. South of Stream
VEGETATION – Use scientific names of	plants.		
	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 10' NW)	<u></u>	Species? Status	Number of Dominant Species
1. Alnus rubra			That Are OBL, FACW, or FAC: 2 (A
2			Total Number of Dominant
3			Species Across All Strata: 2 (B
4		= Total Cover	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 10' NW)	<u></u>		That Are OBL, FACW, or FAC: 100% (A
1			Prevalence Index worksheet:
2			Total % Cover of: Multiply by:
3			OBL species <u>0</u> x 1 = <u>0</u>
4			FACW species $\underline{0}$ $x = \underline{0}$
5			FAC species 0 $x 3 = 0$
Herb Stratum (Plot size: 30' S semi-cir)	<u>U</u>	= Total Cover	FACU species 0 $x 4 = 0$ UPL species 0 $x 5 = 0$
1. Rubus armeniacus	60	Y FAC	Column Totals: 0 (A) 0
2. Polystichum munitum	5	N FACU	(i) <u>s</u>
3. Adiantum aleuticum	<u>5</u>	N FAC	Prevalence Index = $B/A = 0$
4			Hydrophytic Vegetation Indicators:
5			☑ Dominance Test is >50%
6			☐ Prevalence Index is ≤3.0¹
7			Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8			☐ Problematic Hydrophytic Vegetation¹ (Explain)
		= Total Cover	
Woody Vine Stratum (Plot size:)	<u>70</u>		
Woody Vine Stratum (Plot size:) 1			¹ Indicators of hydric soil and wetland hydrology mus
Woody Vine Stratum (Plot size:) 1 2			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			

Profile Des	cription: (Describe	to the de	epth needed to docu	ment the	indicator	or confirm	n the absen	ce of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
			Color (moist)		туре	LUC		
0-5	7.5YR2.5/3	100	7.5)/0.4/40				Silt loam	Lot's of roots
<u>5-11</u>	7.5YR2.5/1	97	7.5YR4/10	3	<u>C</u>	<u>M</u>	Clay	Restrictive layer
<u>11-18</u>	7.5YR2.5/2	90	5YR3/4	10	<u>C</u>	<u>M</u>	Clay	
				_				
								_
¹Type: C=C	Concentration, D=De	oletion. RN	M=Reduced Matrix, C	S=Cover	ed or Coat	ed Sand G	rains. ² L	Location: PL=Pore Lining, M=Matrix.
			II LRRs, unless othe					ntors for Problematic Hydric Soils ³ :
☐ Histosol	(A1)		☐ Sandy Redox (S	S5)			□ 1	cm Muck (A9) (LRR C)
	pipedon (A2)		☐ Stripped Matrix	. ,				cm Muck (A10) (LRR B)
☐ Black H			Loamy Mucky N					educed Vertic (F18)
	en Sulfide (A4)	o \	☐ Loamy Gleyed N		2)			d Parent Material (TF2)
	d Layers (A5) (LRR c ck (A9) (LRR D)	()	☐ Depleted Matrix☐ Redox Dark Su)			ner (Explain in Remarks)
	d Below Dark Surfac	·e (Δ11)	☐ Depleted Dark	`	,			
	ark Surface (A12)	(/ (/ ())	☐ Redox Depress				³ Indica	ators of hydrophytic vegetation and
	/lucky Mineral (S1)		_ ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(-,				tland hydrology must be present,
☐ Sandy C	Sleyed Matrix (S4)						unl	ess disturbed or problematic.
Restrictive	Layer (if present):							
Type: <u>Cla</u>	ay		_					
Depth (ir	nches): <u>5</u>		_				Hydric So	oil Present? Yes ⊠ No □
Remarks: W	/et soil							
YDROLOG	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one requir	ed; check all that app	ly)			<u>Sec</u>	condary Indicators (2 or more required)
☐ Surface	Water (A1)		☐ Salt Crust	(B11)				Water Marks (B1) (Riverine)
	ater Table (A2)		☐ Biotic Crus	st (B12)				Sediment Deposits (B2) (Riverine)
	on (A3)		☐ Aquatic In		` ,			Drift Deposits (B3) (Riverine)
☐ Water M	larks (B1) (Non rive	rine)	☐ Hydrogen	Sulfide C	Odor (C1)			Drainage Patterns (B10)
☐ Sedime	nt Deposits (B2) (No	n riverine	e) Dxidized F	Rhizosphe	eres along	Living Roc	ots (C3)	Dry-Season Water Table (C2)
	posits (B3) (Non rive	erine)	☐ Presence		,	•		Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro			d Soils (C6	•	Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial I	magery (B	•					Shallow Aquitard (D3)
☐ Water-S	stained Leaves (B9)		☐ Other (Exp	olain in R	emarks)			FAC-Neutral Test (D5)
Field Obse	rvations:							
		Yes □ N	No 🛛 Depth (inches	s): <u>0</u>				
Water Table			No Depth (inches					
Saturation F	Present?		No Depth (inches			Wet	and Hydrolo	ogy Present? Yes ⊠ No □
	pillary fringe) ecorded Data (strear	ก สลมสอ ก	nonitoring well serial	nhotos r	orevious in	spections)	if available.	Wallow created by brush hog, no algal mat
(B4, no B9,		n gauge, II	nonitoring well, aellal	priotos, p	ZIOVIOUS III	opeodorio),	ii avallabie.	Trailow ordated by brush nog, no algal mat
Remarks:								

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: 37090 Kelso RD		City/County:	Sandy/Cla	ckamas	_ Sampling Date:4/	28/2017
Applicant/Owner: <u>Joe Spaziani</u>				State: OR	_ Sampling Point: <u>F</u>	P17
nvestigator(s): John McConnaughey, PWS# 2009		§	Section, Tov	vnship, Range: <u>T2S R4I</u>	≣ S11	
andform (hillslope, terrace, etc.): hillslope		Local relief	(concave,	convex, none): concave	Slop	e (%): <u>7%</u>
Subregion (LRR): <u>LRR-A</u>	Lat: 45.24	4878		Long: -122.16978	Datum	i
Soil Map Unit Name: <u>Cazado silt loam, Cottrell silt</u>						
Are climatic / hydrologic conditions on the site typi						
Are Vegetation Y, Soil, or Hydrology	-			Circumstances" present		
Are Vegetation, Soil, or Hydrology _				d, explain any answers		
SUMMARY OF FINDINGS – Attach sit			•		,	tures etc
Attach sit	c map snowing		, point io	- transcott	, important rea	itures, etc.
Hydrophytic Vegetation Present? Yes	-	Is th	ne Sampled	d Area		
· ·	☑ No □	with	nin a Wetla	nd? Yes ⊠	No 🗌	
Wetland Hydrology Present? Yes [Remarks: Above average rainfall in March and	No April amall watland n	ovt to otroor	<u> </u>			
Remarks. Above average familian in March and	Aprii. Smaii welianu n	iexi io sirear	11			
/EGETATION – Use scientific names						
Tree Stratum (Plot size: 10' NW)	Absolute % Cover	DominantSpecies?	Indicator	Dominance Test wo		
1. Alnus rubra		Y Y		Number of Dominant That Are OBL, FACW		(A)
2						
3.				Total Number of Dom Species Across All St		(B)
4				Opecies Across Air Of		(D)
···		= Total C		Percent of Dominant That Are OBL, FACW		(A/B)
Sapling/Shrub Stratum (Plot size: 10' NW)		_		That Ale OBL, I ACK	7, 011 AC. 100 <u>78</u>	(A/B)
1. Rubus armeniacus	100	<u>Y</u>	FAC	Prevalence Index w		
2				Total % Cover of		y by:
3				OBL species 0		
4				FACW species 0		
5				FAC species 0		
Herb Stratum (Plot size: 30' S semi-cir)	<u>100</u>	_ = Total C	Cover	FACU species 0		
1. herb	2	N	NOI	UPL species 0		
Carex dewyana				Column Totals: 0	(A) <u>0</u>	(B)
3				Prevalence Inde	ex = B/A = 0	
4				Hydrophytic Vegeta		
5				Dominance Test		
6				☐ Prevalence Index	is ≤3.0¹	
7.				☐ Morphological Ad	aptations1 (Provide	supporting
8.					rks or on a separate	
o		= Total C		☐ Problematic Hydr	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size:)	<u>·</u>					
Trocay vino ottatami				¹ Indicators of hydric s		
1				ha procest uplace di		HIC:
1				be present, unless dis	sturbed or problema	
				Hydrophytic Vegetation	res ⊠ No □	

Profile Des	cription: (Descri	be to the de	pth needed to do	ument the	indicator	or confirm	n tne absenc	e of indicators.)
Depth	Matrix			dox Feature	s		_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	7.5YR2.5/2	100					Silt loam	Lot's of roots
6-9	5YR3/3	100					Clay	odd mix of dark and red colors
9-18	5YR3/4	90	5YR2.5/2	10			Clay	depleted along root channels
	_		-				-	
							-	-
¹ Type: C=C	Concentration, D=D	Depletion, RN	/I=Reduced Matrix,	CS=Covere	d or Coate	ed Sand Gi	rains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
			II LRRs, unless ot					tors for Problematic Hydric Soils ³ :
☐ Histosol			☐ Sandy Redox		,		□ 1 c	m Muck (A9) (LRR C)
	pipedon (A2)		☐ Stripped Matr					m Muck (A10) (LRR B)
☐ Black Hi	istic (A3)		☐ Loamy Mucky	/ Mineral (F1				duced Vertic (F18)
_ , .	en Sulfide (A4)		☐ Loamy Gleyed	d Matrix (F2)				Parent Material (TF2)
	d Layers (A5) (LRI	R C)	☐ Depleted Matr				☐ Oth	er (Explain in Remarks)
	ck (A9) (LRR D)	(Δ44)	Redox Dark S	, ,	77\			
	d Below Dark Surf ark Surface (A12)	ace (A11)	☐ Depleted Dar☐ Redox Depre	,	7)		3Indian	tors of hydrophytic vegetation and
	Mucky Mineral (S1)	١	☐ Redox Depie	5510H5 (F6)				land hydrology must be present,
-	Gleyed Matrix (S4)							ess disturbed or problematic.
	Layer (if present							
Type: Cla								
	nches): 5		_				Hydric So	il Present? Yes ⊠ No □
Remarks: W	/et soil							
IYDROLOG	3Y							
	drology Indicato	ro.						
_			ed; check all that ap	anlu)			Soci	ondary Indicators (2 or more required)
Surface	•	one require	<u>ed, crieck all triat a</u> Salt Cru					· · · · · · · · · · · · · · · · · · ·
	ater Table (A2)			rust (B12)				Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
☐ Saturation			☐ Aquatic	` ,	e (B13)			Orift Deposits (B3) (Riverine)
	on (AS) 1arks (B1) (Non ri v	verine\	☐ Hydroge		` '		_	Orainage Patterns (B10)
	nt Deposits (B2) (N					Livina Roo		Dry-Season Water Table (C2)
	posits (B3) (Non r i		☐ Presenc		-	-		Crayfish Burrows (C8)
-	Soil Cracks (B6)		☐ Recent I					Saturation Visible on Aerial Imagery (C9)
	on Visible on Aeria	l Imagery (B		ck Surface (2 000 (00		Shallow Aquitard (D3)
	Stained Leaves (B9		•	explain in Re	•			FAC-Neutral Test (D5)
		•	(-		- /			, ,
Field Obser	rvations:							
	ter Present?	Yes 🗌 N	lo 🛛 Depth (inch	nes): <u>0</u>				
Water Table		_		nes):				
Saturation F			lo Depth (inch			Wetl	and Hvdrolo	gy Present? Yes ⊠ No □
(includes ca	pillary fringe)	·—-	_	-				<u></u>
L Dogoribo Do	ecorded Data (stre	am gauge, n	nonitoring well, aeri	al photos, pr	evious in	spections).	if available:	
Describe Ke	(0 0 ,	3 , , , ,	' ''		,,		
Describe Re	(5.5.5)	3 3 7	3 1 , 11	, ,,		,,		
Remarks:								

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys & Coast

Project/Site: 37090 Kelso RD		City/County	r: Sandy/Cla	ckamas	_ Samplir	ng Date: <u>4/28</u>	/2017
Applicant/Owner: <u>Joe Spaziani</u>				State: OR	_ Samplir	ng Point: P18	3
Investigator(s): John McConnaughey, PWS# 2009			Section, Tov	vnship, Range: <u>T2S R4l</u>	E S11		
Landform (hillslope, terrace, etc.): hillslope		Local relie	f (concave,	convex, none): concave		Slope (%): <u>9%</u>
Subregion (LRR): <u>LRR-A</u>	Lat: 45.24	4871		Long: -122.16977		Datum:	
Soil Map Unit Name: <u>Cazado silt loam, Cottrell silty clay</u>							
Are climatic / hydrologic conditions on the site typical fo							
Are Vegetation Y, Soil, or Hydrology sign	-					No ⊠	
Are Vegetation, Soil, or Hydrology	-			d, explain any answers			
SUMMARY OF FINDINGS – Attach site ma							res, etc.
				•	•		•
Hydrophytic Vegetation Present? Yes ☐ N		ls t	he Sampled	l Area			
Hydric Soil Present? Yes ☐ N Wetland Hydrology Present? Yes ☐ N		wit	hin a Wetla	nd? Yes □	No 🖂		
Remarks: Above average rainfall in March and April.		 17					
Tromanio. 7 Boto avorago ramilam in maron ana 7 pm.							
VEGETATION – Use scientific names of p				1			
Tree Stratum (Plot size: 30' S semi-cir)	Absolute % Cover		nt Indicator Status	Dominance Test wo			
Pseudotsuga menziesii		<u>Орссісз</u> Y		Number of Dominant That Are OBL, FACW		1	(A)
2			-				(//
3.				Total Number of Dom Species Across All S		4	(B)
4.				'			(D)
		= Total		Percent of Dominant That Are OBL, FACW		25%	(A/B)
Sapling/Shrub Stratum (Plot size: 30' S semi-cir) 1. Prunus laurocerasus	30	Y	NOI	Prevalence Index w	orksheet:		
Rubus armeniacus				Total % Cover of			w.
3.				OBL species 0			-
4				FACW species 0			
5				FAC species 0			
J		= Total		FACU species 0			
Herb Stratum (Plot size: 30' S semi-cir)		_		UPL species 0			
1		_		Column Totals: 0			
2. Polystichum munitum	<u>20</u>	<u>Y</u>	FACU				
3				Prevalence Inde			
4				Hydrophytic Vegeta		ators:	
5		_	<u> </u>	Dominance Test			
6				☐ Prevalence Index			
7				☐ Morphological Add data in Rema			
8				☐ Problematic Hydr		•	,
Woody Vino Stratum (Diet size)	<u>50</u>	_ = Total	Cover	rroblematio riyar	opriyao v	ogotation (E.	λριαιτή
Woody Vine Stratum (Plot size:)				¹ Indicators of hydric s	soil and we	etland hydrol	oav must
1			·	be present, unless di			
2		= Total	Cover	Hydrophytic			
	140	_ = Total	Cover	Vegetation			
	Cover of Biotic	0 , 00,		Present?	res 🔲 🛚 N	I0 🖾	

Depth	Matrix			dox Feature		1?	Tanton	Demonstra
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	7.5YR3/2	100					Silt loam	
7-12	7.5YR3/3	100					Clay	_
12-18	5YR4/4	95	5YR4/6	<u>5</u>	<u>C</u>	<u>M</u>	Clay	Restrictive layer
			l=Reduced Matrix, 0			ed Sand G		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	licable to al	I LRRs, unless oth	erwise no	ted.)		Indica	tors for Problematic Hydric Soils ³ :
☐ Histosol	, ,		☐ Sandy Redox					m Muck (A9) (LRR C)
	pipedon (A2)		Stripped Matri					m Muck (A10) (LRR B)
☐ Black Hi	en Sulfide (A4)		Loamy Mucky				_	duced Vertic (F18)
	en Sullide (A4) d Layers (A5) (LRR	: C)	☐ Loamy Gleyed☐ Depleted Matri:		,			d Parent Material (TF2) er (Explain in Remarks)
	ck (A9) (LRR D)	. •,	☐ Redox Dark S)			ioi (Explain in Nomano)
	d Below Dark Surfa	ace (A11)	☐ Depleted Dark	, ,				
☐ Thick Da	ark Surface (A12)		☐ Redox Depres	sions (F8)			³ Indica	tors of hydrophytic vegetation and
	Mucky Mineral (S1)							land hydrology must be present,
	Gleyed Matrix (S4)						unle	ess disturbed or problematic.
	Layer (if present):	:						
Type: Cla	· -		-					
Depth (in	ay nches): <u>12</u>		<u>-</u>				Hydric So	oil Present? Yes ☐ No ⊠
	· -		- -				Hydric So	oil Present? Yes □ No ⊠
Depth (in	nches): <u>12</u>		- -				Hydric So	oil Present? Yes □ No □
Depth (in Remarks:	nches): <u>12</u>	s:	-				Hydric So	oil Present? Yes □ No ⊠
Depth (in Remarks:	GY /drology Indicator		- - ed; check all that ap	ply)				ondary Indicators (2 or more required)
Depth (in Remarks: /DROLOG Wetland Hy	GY /drology Indicator icators (minimum of		ed; check all that ap □ Salt Crus				Sec	
Depth (in Remarks: /DROLOG Wetland Hy Primary Indi Surface	GY /drology Indicator icators (minimum of		•	t (B11)			Sec	ondary Indicators (2 or more required)
Depth (in Remarks: /DROLOG Wetland Hy Primary Indi Surface	orches): 12 GY /drology Indicator icators (minimum of Water (A1) ater Table (A2)		☐ Salt Crus	t (B11) ust (B12)	es (B13)		<u>Sec</u>	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (in Remarks: /DROLOG Wetland Hy Primary Indi Surface High Wat Saturati Water M	Arches): 12 Adrology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non riv	f one require	☐ Salt Crus ☐ Biotic Cru ☐ Aquatic II ☐ Hydroger	et (B11) ust (B12) nvertebrate n Sulfide O	dor (C1)		Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (in Remarks: /DROLOG Wetland Hy Primary Indi Surface High Water M Sedimen	Arches): 12 Arche	f one require erine) on riverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along	•	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (in Remarks: /DROLOG Wetland Hy Primary Indi Surface High Water Mater Mater Mater Mater Mater Depth Dep	Arches): 12 Advology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non rivent Deposits (B2) (Non rivent Deposits (B3) (Non rivent Deposits (B4) (Non rivent Deposits (B	f one require erine) on riverine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C	4)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (in Remarks: /DROLO(Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Dep Surface	Arches): 12 Arche	f one require erine) on riverine) verine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence	ot (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct	dor (C1) eres along ed Iron (C ion in Tille	4)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS
Depth (in Remarks: /DROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation	Arches): 12 Advology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non rivent Deposits (B2) (Non rivent Deposits (B3) (Non rivent Deposits (B4) (Non rivent Deposits (B	erine) on riverine) verine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (in Remarks: /DROLOG Wetland Hy Primary Indi Surface High Wa Saturatic Water M Sedimer Drift Dep Surface Inundation	Arches): 12 Arche	erine) on riverine) verine)	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct ton Reduct k Surface	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (in Remarks: /DROLO(Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Dep Surface Inundatio Water-S	Arches): 12 Arche	erine) on riverine) verine) Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface cplain in Re	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (in Remarks: /DROLO(Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimel Drift Dep Surface Inundatio Water-S	drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non rivent Deposits (B2) (Non rivent Deposits (B3) (Non rivent Deposits (B6) on Visible on Aerial Stained Leaves (B9) rvations:	erine) on riverine) verine) Imagery (Ba	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct k Surface xplain in Re es): 0	dor (C1) eres along ed Iron (C ion in Tille (C7)	4)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (in Remarks: Property (In Remarks: Property (In Remarks: Property (In Remarks: Primary India Surface High Water Mater Mater Sediment Sediment Surface Inundation Water-Sediment Water-Sediment Surface Water Table Saturation Federal Sediment Sed	Arches): 12 GY Adrology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Arks (B1) (Non riv nt Deposits (B2) (Non riv Soil Cracks (B6) on Visible on Aerial Stained Leaves (B9) rvations: ter Present?	erine) on riverine) verine) Imagery (B7	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct on Reduct ck Surface cplain in Re es): 0 es): 13"	dor (C1) eres along ed Iron (C ion in Tille (C7)	4) ed Soils (Ce	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3)
Depth (in Remarks: Property (in Remarks: Property (in Remarks: Property (in Remarks: Primary Indi Surface High Water Mater Mater Sediment Surface Inundation Water-Sediment Water Table Saturation Foundation	drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non rivent Deposits (B2) (Non rivent Deposits (B3) (Non rivent Deposits (B6) on Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? pipillary fringe)	erine) on riverine) verine) Imagery (B7) Yes N Yes N	Salt Crus Biotic Cru Aquatic In Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct con Reduct ck Surface cyplain in Re es): 0 es): 13" es): 13"	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (Ce	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (in Remarks: Property (in Remarks: Property (in Remarks: Property (in Remarks: Primary Indi Surface High Water Mater Mater Sediment Surface Inundation Water-Sediment Water Table Saturation Foundation	drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non rivent Deposits (B2) (Non rivent Deposits (B3) (Non rivent Deposits (B6) on Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? pipillary fringe)	erine) on riverine) verine) Imagery (B7) Yes N Yes N	Salt Crus Biotic Cru Aquatic II Hydroger Oxidized Presence Recent Ir Thin Muc Other (Ex	ust (B11) ust (B12) nvertebrate n Sulfide O Rhizosphe e of Reduct con Reduct ck Surface cyplain in Re es): 0 es): 13" es): 13"	dor (C1) eres along ed Iron (C ion in Tille (C7) emarks)	4) ed Soils (Ce	ots (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys & Coast

Project/Site: 37090 Kelso RD	(City/County: Sandy/Cla	ackamas	Sampling Date: 4/28/2017
Applicant/Owner: <u>Joe Spaziani</u>			State: OR	Sampling Point: P19
nvestigator(s): <u>John McConnaughey, PWS</u> #	£ 2009	Section, To	wnship, Range: <u>T2S R4E</u>	S11
_andform (hillslope, terrace, etc.): hillslope		Local relief (concave,	convex, none): concave	Slope (%): <u>2%</u>
Subregion (LRR): <u>LRR-A</u>	Lat: <u>45.2</u> 4	1980	Long: <u>-122.16851</u>	Datum:
Soil Map Unit Name: <u>Cazado silt Ioam, Cottr</u>				
Are climatic / hydrologic conditions on the sit				
Are Vegetation, Soil, or Hydrol			ormal Circumstances" pres	sent? Yes ⊠ No □
Are Vegetation, Soil, or Hydrol			ed, explain any answers in	
SUMMARY OF FINDINGS – Attac				
Hadron bad's Manadad's a Processio	V M N- D		<u> </u>	<u> </u>
	Yes ⊠ No □ Yes ⊠ No □	Is the Sample	d Area	
'	Yes ⊠ No □	within a Wetla	and? Yes ⊠	No 🗌
Remarks: Wetland "B". A small depression		#2. Above average r	ainfall in March and April.	Bare spot in vegetation, off
stream to north in a depression. This is c catagories. VEGETATION – Use scientific nar		wetiand, although the	solis do not tit nicely into c	one of the accepted hydric soil
/EGETATION – Use scientific flat	<u> </u>	Dominant Indicator	Dominance Test world	kahaati
Tree Stratum (Plot size: 15' cir)		Species? Status		
1. Alnus rubra	20	Y FAC		or FAC: <u>3</u> (A)
2			Total Number of Domin	oont
3			Species Across All Stra	
4			·	
Sapling/Shrub Stratum (Plot size: 15' cir	20	_ = Total Cover	Percent of Dominant S That Are OBL, FACW,	or FAC: <u>100%</u> (A/B)
1. Rubus spectabilis **	30	Y FAC	Prevalence Index wo	rksheet:
2. Rosa nutkana	15	<u>Y</u> <u>FAC</u>	Total % Cover of:	Multiply by:
3				x 1 = <u>0</u>
4			FACW species 0	x 2 = <u>0</u>
5			FAC species 0	x 3 = <u>0</u>
			1710 openios <u>s</u>	
		= Total Cover		x 4 = <u>0</u>
Herb Stratum (Plot size: 15' cir)	<u>45</u>	_ = Total Cover	FACU species 0	x 4 = <u>0</u> x 5 = <u>0</u>
1	<u>45</u>	= Total Cover	FACU species 0 UPL species 0	
1 2	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0	x = 0 (B)
1	45	= Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index	x = 0 (B) $x = B/A = 0$
1	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Hydrophytic Vegetati	x = 0 (A) 0 (B) $x = B/A = 0$ on Indicators:
1	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Hydrophytic Vegetati	x = 0 (B) x = B/A = 0 on Indicators:
1	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Hydrophytic Vegetati Dominance Test is	x = 0 (B) x = B/A = 0 (B) on Indicators: x = 50% $x = 3.0^{1}$
1	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Hydrophytic Vegetati Dominance Test is Prevalence Index i Morphological Ada	x = 0 (B) x = B/A = 0 on Indicators:
1	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Dominance Test is Prevalence Index i Morphological Ada data in Remark	$x = 0$ (A) 0 (B) $x = B/A = 0$ on Indicators: $x > 50\%$ $x \le 3.0^{1}$ ptations (Provide supporting)
1	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Dominance Test is Prevalence Index i Morphological Ada data in Remark	x = 0 A
1	45	_ = Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Dominance Test is Prevalence Index i Morphological Ada data in Remark Problematic Hydro	$x = 0$ (A) 0 (B) $x = B/A = 0$ on Indicators: $x > 50\%$ s $\le 3.0^{1}$ ptations ¹ (Provide supporting as or on a separate sheet) phytic Vegetation ¹ (Explain)
1	45	= Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Dominance Test is Prevalence Index i Morphological Ada data in Remark Problematic Hydro	$x = 0$ (A) 0 (B) $x = B/A = 0$ on Indicators: $x > 50\%$ s $\le 3.0^{1}$ ptations ¹ (Provide supporting as or on a separate sheet) phytic Vegetation ¹ (Explain)
1	45	= Total Cover	FACU species 0 UPL species 0 Column Totals: 0 Prevalence Index Hydrophytic Vegetati Dominance Test is Prevalence Index i Morphological Ada data in Remark Problematic Hydro Indicators of hydric so be present, unless dist Hydrophytic Vegetation	$x = 0$ $A = 0$ $A = B/A = 0$ In Indicators: $x > 50\%$ $x = 3.0^{1}$ Populations (Provide supporting as or on a separate sheet) Phytic Vegetation (Explain) will and wetland hydrology must

Depth	Matrix		_	dox Feature		or confir		•
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type ¹	Loc ²	Texture	Remarks
0-6	7.5YR2.5/1	100					Silt Ioam	
6-12	7.5YR4/6	100					Clay	_
12-18	2.5YR4/6	90	2.5YR4/1	10	С	M	Clay	
12-10	2.51K4/0		2.511(4/1	10		IVI	Clay	
	-							
¹ Type: C=C	oncentration, D=D	epletion, RN	M=Reduced Matrix,	CS=Covere	d or Coat	ed Sand G	Grains. ² Locat	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (App	licable to a	II LRRs, unless oth	nerwise no	ted.)		Indicators	for Problematic Hydric Soils ³ :
Histosol	` '		☐ Sandy Redox					Muck (A9) (LRR C)
	pipedon (A2)		☐ Stripped Matr		4.			Muck (A10) (LRR B)
☐ Black Hi	stic (A3) n Sulfide (A4)		Loamy Mucky					ed Vertic (F18) rent Material (TF2)
	d Layers (A5) (LRF	S C)	☐ Loamy Gleyed☐ Depleted Matr		,			Explain in Remarks)
	ck (A9) (LRR D)	- - /	☐ Redox Dark S					
	d Below Dark Surfa	ace (A11)	☐ Depleted Dark	` ,				
☐ Thick Da	ark Surface (A12)		☐ Redox Depres	ssions (F8)				of hydrophytic vegetation and
-	lucky Mineral (S1)							I hydrology must be present,
	Bleyed Matrix (S4)						unless	disturbed or problematic.
	Layer (if present)	:						
Type: cla	-		=				Hudria Cail D	
	ches): <u>12</u>		-				Hydric Soil P	resent? Yes 🛛 No 🗌
Remarks: Ha	ard to get a good o	observation i	pecause the soil wa	s so saturat	iea			
DROLOG	SY							
-	drology Indicator							
Primary Indi	cators (minimum c	f one require	ed; check all that ap	ply)			Second	ary Indicators (2 or more required)
Surface			☐ Salt Crus	, ,				er Marks (B1) (Riverine)
•	iter Table (A2)		☐ Biotic Cr	` ,				iment Deposits (B2) (Riverine)
Saturation	` '		•	nvertebrate	, ,			Deposits (B3) (Riverine)
	arks (B1) (Non riv	•	☐ Hydroge			Library or D		nage Patterns (B10)
	nt Deposits (B2) (Non ri		, _	Rhizosphe	Ū	·	. ,	Season Water Table (C2)
	oosits (B3) (Non ri Soil Cracks (B6)	verine)		e of Reduce				rish Burrows (C8)
	Soil Cracks (B6) on Visible on Aeria	I Imagani /P		ron Reducti		u sons (Cl	, —	ration Visible on Aerial Imagery (C9) llow Aquitard (D3)
	on visible on Aeria tained Leaves (B9			ck Surface (xplain in Re				C-Neutral Test (D5)
□ Water-S	tairied Leaves (Da)	☐ Other (E	хріант ін Ке	illaiks)		L FAC	-Neutral Test (D3)
Field Obser	vations:							
Surface Wat	ter Present?	Yes ⊠ N	lo Depth (inch	ies): <u>0</u>				
Water Table	Present?	Yes 🛛 N	lo Depth (inch	ies):				
Saturation P	resent?	_	lo ☐ Depth (inch	· —		Wet	land Hydrology I	Present? Yes ⊠ No □
	pillary fringe)						if available At	Locat (D4). Colonial
			nonitoring well, aeria tunted/stressed pla		revious in	spections)	, іг avallable: Alga	I mat (B4), Sparsely veg concave
	,	(),	Pian	- (-)				
Remarks:								

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys & Coast

Project/Site: <u>37090 Kelso RD</u>		C	ity/County	: Sandy/Cla	ckamas	Sampling Date: 4/28/2017
pplicant/Owner: <u>Joe Spaziani</u>					State: OR	Sampling Point: P20
nvestigator(s): <u>John McConnaughey, PW</u>	S# 2009		;	Section, Tov	wnship, Range: <u>T2S R4E</u>	S11
andform (hillslope, terrace, etc.): hillslope)		Local relie	f (concave,	convex, none): concave	Slope (%): <u>12%</u>
ubregion (LRR): <u>LRR-A</u>		Lat: 45.249	978		Long: -122.16853	Datum:
oil Map Unit Name: <u>Cazado silt loam, Co</u>						
re climatic / hydrologic conditions on the						
re Vegetation, Soil, or Hyd		-			rmal Circumstances" pres	
re Vegetation, Soil, or Hydi					·	
					d, explain any answers ir	
SUMMARY OF FINDINGS – Atta	ach site map s	snowing s	sampling	g point io	cations, transects,	important features, et
Hydrophytic Vegetation Present?	Yes ☐ No 🏻		ls t	he Sampled	d Area	
Hydric Soil Present?	Yes ☐ No 🏻			hin a Wetla		No ⊠
Wetland Hydrology Present? Remarks: Above average rainfall in Ma	Yes ☐ No ☒				_	
		. ,				
/EGETATION – Use scientific n	ames of plant	s.				
Tree Stratum (Plot size: 30' N)				t Indicator ? Status	Dominance Test wor	
1. Alnus rubra					Number of Dominant S That Are OBL, FACW,	
Acer macrophylum						
3					Total Number of Domi Species Across All Str	
4.					Species Across Air Str	ata. <u>4</u> (b)
Sapling/Shrub Stratum (Plot size: 30'			= Total (Percent of Dominant S That Are OBL, FACW,	
1.					Prevalence Index wo	rksheet:
2					Total % Cover of:	Multiply by:
3					OBL species 0	x 1 = <u>0</u>
4					FACW species 0	x 2 = <u>0</u>
5				. <u></u>	FAC species 0	x 3 = <u>0</u>
		0	= Total 0	Cover	FACU species 0	x 4 = <u>0</u>
Herb Stratum (Plot size: 30' N)					UPL species 0	x 5 = <u>0</u>
1. Rubus spectabilis			<u>Y</u>	FAC	Column Totals: 0	(A) <u>0</u> (E
Polystichum munitum					Prevalence Inde	y - Β/Δ - 0
3.					Hydrophytic Vegetati	
4					Dominance Test is	
5					☐ Prevalence Index i	
6					1 -	aptations ¹ (Provide supporting
7					data in Remark	ks or on a separate sheet)
8				Cover	☐ Problematic Hydro	phytic Vegetation ¹ (Explain)
		11()	- I Utai V	20 v C I		
Woody Vine Stratum (Plot size:)	<u>110</u>	•			
	_		•			oil and wetland hydrology must
1					¹ Indicators of hydric so be present, unless dist	
					be present, unless dist	
1			= Total (be present, unless dist Hydrophytic Vegetation	

Depth Matrix			x Features			_	
nches) Color (moist)	<u>%</u> C	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks
12 <u>7.5YR2.5/3</u>	100					Silt loam	- -
							_
						-	
							_
						_	
						-	
ype: C=Concentration, D=De					ed Sand G		ocation: PL=Pore Lining, M=Matrix.
dric Soil Indicators: (Appli	icable to all L	RRs, unless othe	rwise not	ed.)		Indica	tors for Problematic Hydric Soils ³ :
Histosol (A1)		☐ Sandy Redox (S	S5)			□ 1 c	cm Muck (A9) (LRR C)
Histic Epipedon (A2)		Stripped Matrix					cm Muck (A10) (LRR B)
Black Histic (A3)		Loamy Mucky N	•	•			educed Vertic (F18)
Hydrogen Sulfide (A4)		Loamy Gleyed N					d Parent Material (TF2)
Stratified Layers (A5) (LRR	C) L	Depleted Matrix	. ,			∐ Oth	ner (Explain in Remarks)
1 cm Muck (A9) (LRR D)	L 00 (A11)	Redox Dark Sui	, ,	7 \			
Depleted Below Dark Surface Thick Dark Surface (A12)		☐ Depleted Dark S☐ Redox Depress	•	")		3Indica	ators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	L	Redux Depless	10115 (1-0)				land hydrology must be present,
Sandy Gleyed Matrix (S4)							ess disturbed or problematic.
						1	
estrictive Laver (if present):							
, , , ,							
estrictive Layer (if present): Type: Roots Depth (inches): 12"						Hydric So	nil Present? Yes □ No ⊠
Type: Roots Depth (inches): 12"		ree roots				Hydric So	oil Present? Yes □ No ⊠
Type: Roots		ree roots.				Hydric So	oil Present? Yes □ No ⊠
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12"		ree roots.				Hydric So	oil Present? Yes □ No ⊠
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" DROLOGY	due to large tr	ree roots.				Hydric So	oil Present? Yes □ No ⊠
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" DROLOGY etland Hydrology Indicators	due to large tr						
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" PROLOGY etland Hydrology Indicators imary Indicators (minimum of	due to large tr	check all that appl				Sec	ondary Indicators (2 or more required)
Type: Roots Depth (inches): 12" marks: Shovel refusal at 12" PROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1)	due to large tr	check all that appl ☐ Salt Crust	(B11)			Sec.	ondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Type: Roots Depth (inches): 12" PROLOGY etland Hydrology Indicators simary Indicators (minimum of Surface Water (A1) High Water Table (A2)	due to large tr	check all that appl ☐ Salt Crust ☐ Biotic Crus	(B11) st (B12)			Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type: Roots Depth (inches): 12" PROLOGY Petland Hydrology Indicators Imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)	due to large tr	check all that appl ☐ Salt Crust ☐ Biotic Crus ☐ Aquatic Inv	(B11) st (B12) vertebrates	` ,		Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type: Roots Depth (inches): 12" PROLOGY Petland Hydrology Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive	due to large tr	check all that appl Salt Crust Biotic Crust Aquatic Inv	(B11) st (B12) vertebrates Sulfide Od	lor (C1)		Sec.	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Type: Roots Depth (inches): 12" PROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (No	due to large tr s: one required; erine) on riverine)	check all that appl Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R	(B11) st (B12) vertebrates Sulfide Od Rhizospher	lor (C1) es along	-	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Roots Depth (inches): 12" PROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (Non rive Deposits (B3) (Non rive Deposits (B4) (Non rive De	due to large tr s: one required; erine) on riverine)	check all that appl Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduce	lor (C1) es along d Iron (C4	1)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: Roots Depth (inches): 12" PROLOGY etland Hydrology Indicators imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (Non rive Drift Deposits (B3) (Non rive Drift Deposits (B3) (Non rive Control of Sediment Deposits (B3) (Non rive Contro	due to large tr s: one required; erine) on riverine)	check all that appl Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduce	lor (C1) es along d Iron (C4	1)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: Roots Depth (inches): 12" PROLOGY etland Hydrology Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (No Drift Deposits (B3) (Non rive Surface Soil Cracks (B6)	due to large tr s: one required; erine) on riverine)	check all that appl Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduce	lor (C1) es along d Iron (C4 on in Tille	1)	Sec	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Type: Roots Depth (inches): 12" PROLOGY etland Hydrology Indicators (imary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (Non rive Surface Soil Cracks (B6) Inundation Visible on Aerial	due to large tr s: one required; erine) on riverine) rerine)	check all that appl Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence o	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reducee n Reductic Surface ((lor (C1) res along d Iron (C4 on in Tille C7)	1)	Second S	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Ca
Type: Roots Depth (inches): 12" Permarks: Shovel refusal at 12" PROLOGY Setland Hydrology Indicators (minimum of 12) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive 12) Sediment Deposits (B2) (Non rive 13) Drift Deposits (B3) (Non rive 14) Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9)	due to large tr s: one required; erine) on riverine) rerine)	check all that appl Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reducee n Reductic Surface ((lor (C1) res along d Iron (C4 on in Tille C7)	1)	Second S	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (Canal School (C2))
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" PROLOGY Tetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (No Drift Deposits (B3) (Non rive Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9)	due to large tr s: one required; erine) on riverine) rerine)	check all that appl Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence C Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reducee n Reductic Surface ((lor (C1) res along d Iron (C4 on in Tille C7)	1)	Second S	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3)
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" PROLOGY Tetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (No Drift Deposits (B3) (Non rive Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9)	due to large tr s: one required; erine) on riverine) rerine)	check all that appl Salt Crust Biotic Crus Aquatic Inv Hydrogen Oxidized R Presence C Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduce n Reductio Surface (Colain in Red	lor (C1) es along d Iron (C4 on in Tille C7) marks)	1)	Second S	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3)
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" PROLOGY Vetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (No Drift Deposits (B3) (Non rive Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Veld Observations: urface Water Present?	due to large tr s: one required; erine) on riverine) rerine)	check all that appl Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduce n Reductic Surface (Colain in Red	lor (C1) res along d Iron (C4 on in Tille C7) marks)	1)	Second S	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3)
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" PROLOGY Vetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (No Drift Deposits (B3) (Non rive Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Vetla Observations: Veter Table Present? Veter Table Present?	due to large tr s: one required; erine) on riverine) rerine) Imagery (B7)	check all that appl Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reducei n Reductic Surface (Colain in Red	lor (C1) res along d Iron (C4 on in Tille C7) marks)	t) d Soils (C6	sec.	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C3) Shallow Aquitard (D3)
Type: Roots Depth (inches): 12" emarks: Shovel refusal at 12" PROLOGY Tetland Hydrology Indicators rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Non rive Sediment Deposits (B2) (No Drift Deposits (B3) (Non rive Surface Soil Cracks (B6) Inundation Visible on Aerial Water-Stained Leaves (B9) Teld Observations: Urface Water Present? Vater Table Present? Caturation Present?	due to large tr s: one required; erine) on riverine) rerine) Imagery (B7) Yes	check all that appl Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduce n Reductic Surface (Colain in Red ss): 0 ss): ss):	lor (C1) res along d Iron (C4 on in Tille C7) marks)	d Soils (C6	ts (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Roots Depth (inches): 12" PROLOGY etland Hydrology Indicators (imary Indicators (minimum of Imary Indicators (Minimum of Im	due to large tr s: one required; erine) on riverine) rerine) Imagery (B7) Yes	check all that appl Salt Crust Biotic Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrates Sulfide Od Rhizospher of Reduce n Reductic Surface (Colain in Red ss): 0 ss): ss):	lor (C1) res along d Iron (C4 on in Tille C7) marks)	d Soils (C6	ts (C3)	ondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - WESTERN MOUNTAINS VALLEYS & COAST

Project/Site: <u>37090 Kelso RD</u>	t/Site: 37090 Kelso RD City/County: Sandy/Cl				Sampling Date: 10/10/2018	
Applicant/Owner: <u>Joe Spaziani</u>			Sampling Point: P14/P21			
nvestigator(s): John McConnaughey, PWS	# 2009		Section, Tov	wnship, Range: <u>T2S R4E</u>	S11	
Landform (hillslope, terrace, etc.): hillslope		_ Local reli	ef (concave,	convex, none): concave	Slope (%): <u>1%</u>	
Subregion (LRR): <u>LRR-A</u>	Lat: <u>45.</u> 4	Lat: 45.411500 Long: -122.28076			Datum:	
Soil Map Unit Name: <u>Cazado silt loam, Cott</u>	rell silty clay loam			NWI classifica	tion:	
Are climatic / hydrologic conditions on the s						
Are Vegetation, Soil, or Hydro				rmal Circumstances" pres	sent? Yes ⊠ No □	
Are Vegetation, Soil, or Hydro				d, explain any answers ir		
SUMMARY OF FINDINGS – Attac			`		,	
Hydrophytic Vegetation Present?	Yes ⊠ No □					
Hydric Soil Present?	Yes □ No ⊠		the Sampled		DV DD I	
Wetland Hydrology Present?	Yes ☐ No ☒	W	ithin a Wetla	nd? Yes⊠ E	BY BPJ	
area was determined to be a wetland in absence of hydrology and soil indicators map it as wetland as the surrounding are	, and the presence of Beak ea and previous studies sup	ed Hazelnu	ıt which is usu			
	•	e Domina	nt Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: /4/30' N)			s? Status	Number of Dominant S		
Corylus cornuta	10	<u>Y</u>	FACU		or FAC: 2 (A)	
2				Total Number of Domi	nant	
3				Species Across All Str	ata: <u>3</u> (B)	
4	<u>10</u>	= Total		Percent of Dominant S That Are OBL, FACW,	species or FAC: <u>66%</u> (A/B)	
1				Prevalence Index wo	rksheet:	
2				Total % Cover of:	Multiply by:	
3				OBL species 0	x 1 = <u>0</u>	
4				FACW species 0	x 2 = <u>0</u>	
5				FAC species 0	x 3 = <u>0</u>	
	0	= Total	Cover	FACU species 0	x 4 = <u>0</u>	
Herb Stratum (Plot size: 10' N)				UPL species 0	x 5 = <u>0</u>	
1. Rubus armeniacus			<u>FAC</u>	Column Totals: 0	(A) <u>0</u> (B)	
2. Rosa gymnocarpa			<u>FAC</u>	Prevalence Index	$r - R/\Delta = 0$	
3				Hydrophytic Vegetati		
4				Dominance Test is		
5				☐ Prevalence Index i		
6					ptations ¹ (Provide supporting	
				data in Remark	s or on a separate sheet)	
8					s or on a separate sheet) phytic Vegetation¹ (Explain)	
					•	
8	<u>45</u>	= Total	Cover	☐ Problematic Hydro	phytic Vegetation ¹ (Explain) bil and wetland hydrology must	
8	45	= Total	l Cover	☐ Problematic Hydro	phytic Vegetation ¹ (Explain) bil and wetland hydrology must	
8	45	= Total	Cover	Problematic Hydro Indicators of hydric so be present, unless dist Hydrophytic Vegetation	phytic Vegetation ¹ (Explain) bil and wetland hydrology must	

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Sampling Point: P21

(inches)	Matrix			ox Featur	es			
(IIICHES)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	7.5YR3/3	100					Silt loam	
1-12	7.5YR3/3	95	5YR4/6	5	<u>C</u>	M		
2-16	7.5YR3/2	90	5YR4/6	10	С	M	Silt clay loam	
Type: C=C	Concentration, D=De	epletion. RM=	Reduced Matrix. C	S=Cover	ed or Coate	ed Sand G	irains. ² Loc	eation: PL=Pore Lining, M=Matrix.
	Indicators: (Appl					<u> </u>		rs for Problematic Hydric Soils ³ :
☐ Black Hi☐ Hydroge☐ Stratified☐ 1 cm Mu	pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) (LRR ck (A9) (LRR D)	R C)	□ Sandy Redox (□ Stripped Matrix □ Loamy Mucky □ Loamy Gleyed □ Depleted Matrix □ Redox Dark Su	x (S6) Mineral (F Matrix (F2 x (F3) urface (F6	2)		☐ 2 cm ☐ Redu ☐ Red F	Muck (A9) (LRR C) Muck (A10) (LRR B) uced Vertic (F18) Parent Material (TF2) (Explain in Remarks)
☐ Thick Da☐ Sandy N☐ Sandy C	d Below Dark Surfa ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		☐ Depleted Dark ☐ Redox Depress				wetla	rs of hydrophytic vegetation and nd hydrology must be present, s disturbed or problematic.
	Layer (if present):							
								D 10 Y D N D
Depth (ir Remarks: T	nches): he 4-12 inch layer h		centrations, howev	er the ma	atrix was no	ot a chrom		Present? Yes ☐ No ☒ d so does not meet the standard for
Depth (ir Remarks: Ti depleted ma	nches): he 4-12 inch layer h atrix.		centrations, howev	ver the ma	atrix was no	ot a chrom		
Depth (ir Remarks: Ti depleted ma	nches): he 4-12 inch layer h atrix.	had redox con	centrations, howev	ver the ma	atrix was no	ot a chrom		Present? Yes ☐ No ☒ d so does not meet the standard for
Depth (in Remarks: Tidepleted ma	nches): he 4-12 inch layer h atrix.	had redox con			atrix was no	ot a chrom	a 2 or lower, and	d so does not meet the standard for
Depth (ir Remarks: Ti depleted ma DROLOG Wetland Hy Primary Indi	he 4-12 inch layer hatrix. 3Y /drology Indicator	had redox con		oly)	atrix was no	ot a chrom	a 2 or lower, and	d so does not meet the standard for
Depth (ir Remarks: Tidepleted manned DROLOG Wetland Hy Primary Indi	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of	had redox con	l; check all that app	oly) : (B11)	atrix was no	ot a chrom	a 2 or lower, and	d so does not meet the standard for
Depth (ir Remarks: Ti depleted ma DROLOG Wetland Hy Primary Indi Surface High Wa	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of Water (A1) ater Table (A2)	had redox con	l; check all that app ☐ Salt Crust	oly) (B11) st (B12)		ot a chrom	a 2 or lower, and Secon	d so does not meet the standard for adary Indicators (2 or more required) ater Marks (B1) (Riverine)
Depth (in Remarks: The pleted material period of the perio	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of Water (A1) ater Table (A2)	had redox con	l; check all that app ☐ Salt Crust ☐ Biotic Cru	oly) (B11) st (B12) vertebrat	es (B13)	ot a chrom	Secon W: Se Dr	d so does not meet the standard for adary Indicators (2 or more required) ater Marks (B1) (Riverine) addiment Deposits (B2) (Riverine)
Depth (in Remarks: Tidepleted management of the Primary India Surface High Water Mater Mater Management of the Primary India Surface Saturation Water Mater Management of the Primary India Surface Mater Ma	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3)	had redox con s: of one required verine)	i; check all that app Salt Crust Biotic Cru	oly) (B11) st (B12) vertebrat Sulfide (es (B13) Odor (C1)		Secon Secon Dr	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine)
Depth (in Remarks: Tidepleted management of the Primary India Surface High Water Management of the Primary India Saturation Water Management of the Primary India Saturation of the Primary In	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) /darks (B1) (Non riv	had redox con 's: of one required verine) lon riverine)	: check all that app Salt Crust Biotic Cru Aquatic In	oly) (B11) st (B12) vertebrat Sulfide (Rhizosph	es (B13) Odor (C1) eres along	Living Roc	Secon Secon Secon Dr Dr ots (C3)	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10)
Depth (ir Remarks: Ti depleted ma DROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Dep	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) /darks (B1) (Non rivent Deposits (B2) (N	had redox con 's: of one required verine) lon riverine)	: check all that app Salt Crust Biotic Cru Aquatic In Hydrogen	oly) t (B11) st (B12) vertebrat Sulfide (Rhizosph of Reduc	es (B13) Odor (C1) eres along red Iron (C4	Living Roo	Secon William Secon Dr. Dr. Dr. Cr. Cr	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Depth (in Remarks: The	he 4-12 inch layer hatrix. GY Adrology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non riv nt Deposits (B2) (Non riv posits (B3) (Non riv	had redox con rs: of one required verine) lon riverine) verine)	; check all that app Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	oly) st (B11) st (B12) overtebrat Sulfide (Rhizosph of Reduct on Reduct c Surface	es (B13) Odor (C1) eres along red Iron (C4 tion in Tiller (C7)	Living Roo	Secon Was Secon Dr Dr Cr Cr Sa Sr Sr Sr Sr Sr Sr S	adary Indicators (2 or more required) ater Marks (B1) (Riverine) ediment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
Depth (in Remarks: Tidepleted management of the Primary India Surface Water Management of the Sediment of the Surface Inundation water-Sediment of the Surface Inundation water-Sediment of the Surface Inundation of the Surface Water-Sediment of the Surface Inundation of the Surf	he 4-12 inch layer hatrix. GY Arology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non riv nt Deposits (B2) (N posits (B3) (Non riv Soil Cracks (B6) on Visible on Aerial stained Leaves (B9)	had redox con rs: of one required verine) lon riverine) verine)	; check all that app Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro	oly) st (B11) st (B12) overtebrat Sulfide (Rhizosph of Reduct on Reduct c Surface	es (B13) Odor (C1) eres along red Iron (C4 tion in Tiller (C7)	Living Roo	Secon Was Secon Dr Dr Cr Cr Sa Sr Sr Sr Sr Sr Sr S	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (ir Remarks: Ti depleted ma 'DROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimen Drift Dep Surface Inundatio Water-S	he 4-12 inch layer hatrix. GY Arology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) (Non riv nt Deposits (B2) (N posits (B3) (Non riv Soil Cracks (B6) on Visible on Aerial stained Leaves (B9)	had redox con rs: of one required verine) lon riverine) verine)	check all that app Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck	oly) st (B11) st (B12) overtebrat Sulfide C Rhizosph of Reduc on Reduc c Surface plain in R	es (B13) Odor (C1) eres along red Iron (C4 tion in Tiller (C7) emarks)	Living Roo	Secon Was Secon Dr Dr Cr Cr Sa Sr Sr Sr Sr Sr Sr S	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (in Remarks: Tidepleted management of the Primary India Surface High Water Management of the Primary India Saturation Water Management of the Primary India Surface Inundation Water-Surface Water-Surface Waterface Wa	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) /farks (B1) (Non riv nt Deposits (B2) (Non riv Soil Cracks (B6) on Visible on Aerial Stained Leaves (B9) rvations: ter Present?	had redox con rs: f one required verine) lon riverine) verine) I Imagery (B7)	; check all that app Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	oly) st (B11) st (B12) overtebrat Sulfide C Rhizosph of Reduc on Reduc c Surface plain in R	es (B13) Odor (C1) eres along ted Iron (C4 tion in Tiller (C7) emarks)	Living Roo	Secon Was Secon Dr Dr Cr Cr Sa Sr Sr Sr Sr Sr Sr S	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (ir Remarks: Tidepleted ma 'DROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedimer Drift Dep Inundatic Water-S Field Obset Surface Water Table Saturation F	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of Water (A1) ater Table (A2) on (A3) /farks (B1) (Non riv nt Deposits (B2) (N posits (B3) (Non riv Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) rvations: ter Present? Present?	had redox con rs: of one required verine) lon riverine) verine) I Imagery (B7) Yes No	check all that app Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Irc Thin Muck Other (Ex	oly) (B11) st (B12) evertebrat Sulfide C Rhizosph of Reduc on Reduc c Surface plain in R	es (B13) Odor (C1) eres along red Iron (C4 tion in Tiller (C7) emarks)	Living Roo ‡) d Soils (C6	Secon Secon W: Se Dr Dr Cts (C3) Cr Se Sr FA	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ift Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3)
Depth (ir Remarks: Tidepleted ma 'DROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedimel Drift Dep Surface Inundatio Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of water (A1) ater Table (A2) on (A3) /farks (B1) (Non riv nt Deposits (B2) (N posits (B3) (Non riv Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) rvations: ter Present? Present? pipillary fringe)	had redox con rs: of one required verine) lon riverine) verine) I Imagery (B7) Yes	; check all that app Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	oly) (B11) st (B12) evertebrat Sulfide C Rhizosph of Reduc on Reduc c Surface plain in R es): es):	es (B13) Odor (C1) eres along ted Iron (C4 tion in Tiller (C7) emarks)	Living Roo I) d Soils (Ce	Secon Secon Wa Se Dr Cr Sa FA	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Callow Aquitard (D3) AC-Neutral Test (D5)
Depth (ir Remarks: Tidepleted ma 'DROLOG Wetland Hy Primary Indi Surface High Wa Saturati Water N Sedimel Drift Dep Surface Inundatio Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	he 4-12 inch layer hatrix. GY /drology Indicator icators (minimum of water (A1) ater Table (A2) on (A3) /farks (B1) (Non riv nt Deposits (B2) (N posits (B3) (Non riv Soil Cracks (B6) on Visible on Aerial stained Leaves (B9) rvations: ter Present? Present? pipillary fringe)	had redox con rs: of one required verine) lon riverine) verine) I Imagery (B7) Yes	; check all that app Salt Crust Biotic Cru Aquatic In Hydrogen Oxidized I Presence Recent Iro Thin Muck Other (Ex	oly) (B11) st (B12) evertebrat Sulfide C Rhizosph of Reduc on Reduc c Surface plain in R es): es):	es (B13) Odor (C1) eres along ted Iron (C4 tion in Tiller (C7) emarks)	Living Roo I) d Soils (Ce	Secon Secon Wa Se Dr Cr Sa FA	adary Indicators (2 or more required) ater Marks (B1) (Riverine) adiment Deposits (B2) (Riverine) iff Deposits (B3) (Riverine) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) aturation Visible on Aerial Imagery (Contallow Aquitard (D3) AC-Neutral Test (D5)

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WETLAND DETERMINATION DATA FORM - WESTERN MOUNTAINS, VALLEYS & COAST

Annlicent/Oumer: Joe Charieni	City/County: Sandy/Clackamas				· · ·	
Applicani/Owner. <u>Joe Spaziani</u>	State: OR				Sampling Point: P22 (was P15)	
nvestigator(s): John McConnaughey, PWS# 2009	Section, Township, Range: <u>T2S R4E S11</u>					
_andform (hillslope, terrace, etc.): hillslope	1	_ocal rel	ief (concave, o	convex, none): concave	Slope (%): <u>2%</u>	
Subregion (LRR): <u>LRR-A</u>	Lat: 45.41	15490		Long: -122.280750	Datum:	
Soil Map Unit Name: Cazado silt loam, Cottrell silty clay loam						
Are climatic / hydrologic conditions on the site typical for this t						
Are Vegetation, Soil, or Hydrology signif	-			mal Circumstances" pres		
Are Vegetation, Soil, or Hydrology natura				d, explain any answers ir		
			`	, ,	,	
SUMMARY OF FINDINGS – Attach site map si	nowing s	ampli	ng point lo	cations, transects,	important features, etc.	
Hydrophytic Vegetation Present? Yes ⊠ No □		Is	the Sampled	I Area		
Hydric Soil Present? Yes ⊠ No □		w		nd? Yes 🛛		
Wetland Hydrology Present? Yes ☐ No ☒		in	Determined v idicators.	vetiand by BPJ in spite o	of weak vegetation and hydrology	
Remarks: In the wetland mitigation area. Lath was labeled						
Appears as P22 on the maps. Vegetation was disturbed b problematic, but we are calling it a wetland.	y brush hog	when w	ve observed it,	and at the end of the dr	y season. This delineation is	
VEGETATION – Use scientific names of plants		Domin	ant Indicator	Deminance Test wer	lrahaat.	
Tree Stratum (Plot size: 30' N)			ant Indicator es? Status	Dominance Test wor Number of Dominant S		
1. Alnus rubra	15	<u>Y</u>	FAC		or FAC: 2 (A)	
Acer macrophylum	<u>15</u>	Y	FACU	Total Number of Domi	nant	
3				Species Across All Str		
4				Percent of Dominant S	Species	
Carling/Charle Ctratum (Plataines 201 N)	30	= Tota	l Cover		or FAC: <u>66%</u> (A/B)	
Sapling/Shrub Stratum (Plot size: 30' N)	90	V	EAC	Prevalence Index wo	rkshoot:	
Rubus americanus Rosa gymnocarpa			<u>FAC</u> <u>FACU</u>		Multiply by:	
					x 1 = 0	
3					x = 0	
5					x 3 =	
o	0				x 4 =	
Herb Stratum (Plot size: 10' N)	<u> </u>	- 100			x 5 = 0	
1					(A)(B)	
2					(/ (/	
3				Prevalence Inde		
4				Hydrophytic Vegetat		
5				□ Dominance Test is		
6				☐ Prevalence Index		
7					aptations¹ (Provide supporting ks or on a separate sheet)	
8					ophytic Vegetation¹ (Explain)	
Woody Vine Stratum (Plot size:)	95	= Tota	l Cover		priyate v egotation (Explain)	
				¹ Indicators of hydric so	oil and wetland hydrology must	
1 2				be present, unless dis		
	125	= Tota	l Cover	Hydrophytic		
				Vegetation	M N- D	
% Bare Ground in Herb Stratum % Cove	er of Biotic (Crust <u>0%</u>	<u> </u>	Present? Yo	es 🛛 No 🗌	

Depth Matrix		dox Feature			m the abso	·
(inches) Color (moist) %	Color (moist)	<u> </u>		Loc ²	Texture	Remarks
0-6 10YR2/2 100					Silt loam	
6-10 7.5YR3/2 95	5YR4/6	5	С	M	· ·	
0-16 7.5YR4/4 60						
7.5YR3/2 40					Silty clay	loam
	-				-	
Type: C=Concentration, D=Depletion, RN				ed Sand G		² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to a			tea.)			icators for Problematic Hydric Soils ³ :
Histosol (A1)	☐ Sandy Redox	. ,				1 cm Muck (A9) (LRR C)
☐ Histic Epipedon (A2) ☐ Black Histic (A3)	☐ Stripped Matr☐ Loamy Mucky		1)			2 cm Muck (A10) (LRR B) Reduced Vertic (F18)
☐ Hydrogen Sulfide (A4)	Loamy Gleyed					Red Parent Material (TF2)
☐ Stratified Layers (A5) (LRR C)	☐ Depleted Matr		,			Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	☐ Redox Dark S					(
Depleted Below Dark Surface (A11)	☐ Depleted Dar	, ,				
☐ Thick Dark Surface (A12)	☐ Redox Depre	ssions (F8)			³ Inc	licators of hydrophytic vegetation and
☐ Sandy Mucky Mineral (S1)					,	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)						unless disturbed or problematic.
Restrictive Layer (if present):						
Type:						
Depth (inches):Remarks: Mixed matrix below 10", redox 6	_				Hydric	Soil Present? Yes ⊠ No □
Depth (inches):Remarks: Mixed matrix below 10", redox 6	_				Hydric	Soil Present? Yes ⊠ No □
Depth (inches):Remarks: Mixed matrix below 10", redox 6	_				Hydric	Soil Present? Yes ⊠ No □
Depth (inches):	- 5-10	oply)				
Depth (inches): demarks: Mixed matrix below 10", redox 6 DROLOGY Wetland Hydrology Indicators: Indicators (minimum of one requiremary Indicators (minimum of one requirematical for the control of the contro	 i-10 ed; check all that ap					Secondary Indicators (2 or more required)
Depth (inches):	 i-10 ed; check all that ar □ Salt Cru	st (B11)				Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches):	ed; check all that ar	st (B11) rust (B12)	es (B13)			Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches):	ed; check all that ap Salt Crus Biotic Cr Aquatic	st (B11) rust (B12) Invertebrate	. ,			Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches):	ed; check all that ap Salt Crus Biotic Cr Aquatic Hydroge	st (B11) rust (B12) Invertebrate n Sulfide O	dor (C1)	Livina Roc	<u>\$</u> [Gecondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches):	ed; check all that ap Salt Crue Biotic Cr Aquatic Hydroge	st (B11) rust (B12) Invertebrate en Sulfide O d Rhizosphe	dor (C1) res along	•		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches):	ed; check all that ar Salt Crus Biotic Cr Aquatic Hydroge Oxidized Presence	st (B11) rust (B12) Invertebrate en Sulfide O d Rhizosphe e of Reduce	dor (C1) res along ed Iron (C	4)		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
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WETLAND DETERMINATION DATA FORM - WESTERN MOUNTAINS, VALLEYS & COAST

roject/Site: 37090 Kelso RD		City/County: <u>Sandy/Clackamas</u> S			
pplicant/Owner: <u>Joe Spaziani</u>			Sampling Point: P23		
nvestigator(s): <u>John McConnaughey, PWS# 2</u>	2009	Section, To	wnship, Range: <u>T2S R4</u>	E S11	
andform (hillslope, terrace, etc.): hillslope		_ Local relief (concave,	convex, none): concave	Slope (%): <u>4%</u>	
Subregion (LRR): <u>LRR-A</u>	Lat: <u>45.2</u>	4978	Long: -122.16853	Datum:	
oil Map Unit Name: <u>Cazado silt loam, Cottre</u>	I silty clay loam		NWI classific	cation:	
are climatic / hydrologic conditions on the site					
re Vegetation, Soil, or Hydrolo				esent? Yes 🛛 No 🗌	
re Vegetation, Soil, or Hydrolo			ed, explain any answers		
SUMMARY OF FINDINGS – Attach			, ,	,	
- Attack	Site map snowing		ocations, transcott	s, important reatures, etc.	
Hydrophytic Vegetation Present?		Is the Sample	d Area		
1 -	′es ⊠ No □	within a Wetla	nd? Yes ⊠	No 🗆	
Wetland Hydrology Present? Remarks: A constructed shallow pond are	es No □	project			
Remarks. A constructed shallow point are	a ioi a welland miligation	project.			
/EGETATION – Use scientific nam	Absolute	e Dominant Indicator	Dominance Test wo	arkohooti	
Tree Stratum (Plot size: 30' N)		r Species? Status	Number of Dominant		
1. Alnus rubra		Y FAC		V, or FAC: <u>2</u> (A)	
2			Total Number of Dom	ninant	
3			Species Across All S		
4			Percent of Dominant	Species	
Conling/Chruh Strotum (Diet size: 20! N)	<u>15</u>	_ = Total Cover	That Are OBL, FACV		
Sapling/Shrub Stratum (Plot size: 30' N) 1			Prevalence Index w	orksheet:	
2.			Total % Cover of		
3				x 1 = 0	
4.			· ·	x 2 = 0	
5			FAC species 0	x 3 = <u>0</u>	
	0	= Total Cover	FACU species 0	x 4 = <u>0</u>	
Herb Stratum (Plot size: 30' N)			UPL species 0	x 5 = <u>0</u>	
1			Column Totals: 0	(A) <u>0</u> (B)	
2. <u>Juncus effusus</u>		<u>Y</u> <u>FAC</u>	Prevalence Ind	ex = B/A = 0	
3			Hydrophytic Vegeta		
4			Dominance Test		
5 6			☐ Prevalence Index		
7				daptations ¹ (Provide supporting	
8.				irks or on a separate sheet)	
		= Total Cover	☐ Problematic Hydr	rophytic Vegetation ¹ (Explain)	
Woody Vine Stratum (Plot size:)	<u></u>	_			
1				soil and wetland hydrology must sturbed or problematic.	
2			' '	Starbed of problematic.	
	<u>50</u>	_ = Total Cover	Hydrophytic Vegetation		
<u>50</u> = Total Cover			* cgctation		
% Bare Ground in Herb Stratum 50%	% Cover of Biotic	Crust 0%		Yes ⊠ No □	

Sampling Point: P23

Profile Description: (Describe to the d	•			
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) %	Type ¹ Loc ²	Texture	Remarks
Theries) Color (moist) 70	Solor (moist) 70	Type Loc	TOXIGIO	Kemana
NABLE TO COLLECT SOIL SAMPLE [DUE TO INUNDATION OVER MUD	DDY SOILS.		
	<u> </u>			
Former O. Communitation D. Devlation F	M. Dadasad Matrix OC Coursed		21 1	and DL. Dans Linian M. Matrix
Type: C=Concentration, D=Depletion, Foundation, Founda				on: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :
		u.)		•
Histosol (A1)	☐ Sandy Redox (S5)			uck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)			uck (A10) (LRR B)
Black Histic (A3) Hydrogen Sulfide (A4)	☐ Loamy Mucky Mineral (F1)☐ Loamy Gleyed Matrix (F2)			ed Vertic (F18) rent Material (TF2)
Stratified Layers (A5) (LRR C)	☐ Depleted Matrix (F2)			Explain in Remarks)
1 Stratified Layers (AS) (LRR C) 1 1 cm Muck (A9) (LRR D)	☐ Redox Dark Surface (F6)			explain in Remarks)
Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)	1		
Thick Dark Surface (A12)	Redox Depressions (F8)	,	3Indicators	of hydrophytic vegetation and
Sandy Mucky Mineral (S1)				hydrology must be present,
Sandy Gleyed Matrix (S4)				listurbed or problematic.
estrictive Layer (if present):			1	·
_				
Type:	_		Hydric Soil Pr	esent? Yes⊠ No∏
Type:	_	na muddinass of the		esent? Yes 🗵 No 🗌
Type:	_	ne muddiness of the		
Type:	_	ne muddiness of the		
Type: Depth (inches): emarks: Water was 4" deep and soil sa	_	ne muddiness of the		
Type: Depth (inches): temarks: Water was 4" deep and soil sa	_	ne muddiness of the		
Type:	 mples were difficult to get due to th	ne muddiness of the	e soil. Soil presur	
Type: Depth (inches): emarks: Water was 4" deep and soil sa DROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one requ	mples were difficult to get due to the transfer of the tr	ne muddiness of the	e soil. Soil presur	ned to be hydric.
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Type: Depth (inches): emarks: Water was 4" deep and soil sa DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	ired; check all that apply) Salt Crust (B11) Biotic Crust (B12)		Seconda Seconda Seconda	ary Indicators (2 or more required) or Marks (B1) (Riverine) ment Deposits (B2) (Riverine)
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APPENDIX C - Ground Level Color Photographs: Photos of Wetland "A" and areas covered by WD2017-0410 are removed from this revision. Photo 1. REMOVED Wetland "A" data plots P1 Upland (left), and P2 Wetland (right). The blackberries had been recently mowed to give surveyors access. The wetland determination was based on soils and hydrology. ETC Photo 4/28/2017.

Photo 2. REMOVED Lower portion of Wetland "A" showing excessive algal growth due to fertilizers

washed down from farms and nurseries upslope. ETC Photo 4/28/2017



Photo 3. Wetland "B", a small depressional wetland in a forested area adjacent to Stream 2 in a forested area near where Stream 2 enters the subject property on the East border. ETC Photo 4/28/2017



Photo 4, (left) and 5 (right). Wetland "C". Photo 4 looks down toward the stream, and 5 looks up from the stream. P18 had dry non-hydric soils, and saturated hydric soils were found at P17 which is slightly lower and closer to the stream.



Photo 6. The wetland creation area in Track "E", as seen from Olson Road. ETC Photo 3/30/2017.



Photo 7 Track "E" mitigation area in April 2007. Olson Road had not been constructed, it would be later be built along the far side of the pond. ETC Photo 4/4/2007.



Photo 8 Track "E" after Blackberry clearing along Olson Road in preparation for the road widening. Photo looks East toward Jewelberry Road. ETC Photo 10/30/2018.



Photo 9 - Access road decommissioned January 2018, and erosion control measures complete.

APPENDIX D - Sensitive Area Certification:

Fish Presence:

No fish are thought to be present on the subject property, nor would they be expected.

Endangered Species:

No endangered species of plants or animals were observed or reported.

Critical Habitat Features:

The property was surveyed for the following critical habitat features. Not all of these features are considered rare or critical by the City Sandy:

Talus slopes - none

Caves, cliffs, crevasses, rock outcrops - none

Large oak trees, or oak groves or oak savanna - none

Snags – Several in the South forested area.

Large woody debris – Several large downed trees and logs, particularly in the forested area near Stream 2. The forested area in the South part of the lot had a few fallen trees and logs, but constant with 2nd growth timber areas there were far fewer downed trees than older stands of trees.

Springs, seeps - None.

Deep water habitat - None

Vernal pool wetlands - None

Old growth forest - None.

Wetlands - Described above.

Fish spawning or rearing habitat – none. It is believed that there is no fish access to this property.

APPENDIX E - WD2000-0612

8 PAGES FOLLOW THIS PAGE



August 14, 2001

Division of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 378-3805 FAX (503) 378-4844 http://statelands.dsl.state.or.us

State Land Board

John A. Kitzhaber Governor

Bill Bradbury Secretary of State

Randall Edwards State Treasurer

Joe Spaziano Great American Development 16500 SE Forsythe Road Oregon City, OR 97045

Re:

Wetland Delineation Report for Sandy Bluff 3 Subdivision, Sandy Clackamas County; T2S R4E Sec.11 Tax Lot 800; Det. #00-0612

Dear Mr. Spaziano:

I have reviewed the wetland delineation report prepared by David Waterman of ETC consultants for the project referenced above. Based on the information presented in the report, I concur with the wetland and waterway boundaries as mapped in Figure 1 of the report. These wetlands and waterways are subject to the permit requirements of the state Removal-Fill Law. A state permit is required for fill or excavation of 50 cubic yards or more in a wetland area or below the top of bank of a waterway.

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will review the report and make a determination of jurisdiction for purposes of the Clean Water Act at the time that a permit application is submitted. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

In evaluating a permit application, our agency will first consider whether there is an analysis of alternatives that avoid or minimize wetland or waterway impacts. State law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Division staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. Should additional information be brought to our attention or should site conditions change, we would consider the new information and re-evaluate the site and our jurisdictional determination as needed. Thank you for your report. I apologize for the delay in reviewing it.

Site TCD on the City of Sandy Local Wetland Inventory should now be revised or annotated to show these more accurate wetland boundaries.

Sincerely,

Dana Field

Wetlands Planner

cc: David Waterman, E.T.C.

City of Sandy Planning Department
Jim Goudzwaard, Corps of Engineers

Steve Moser, DSL

Approved by

lohn E. Lilly

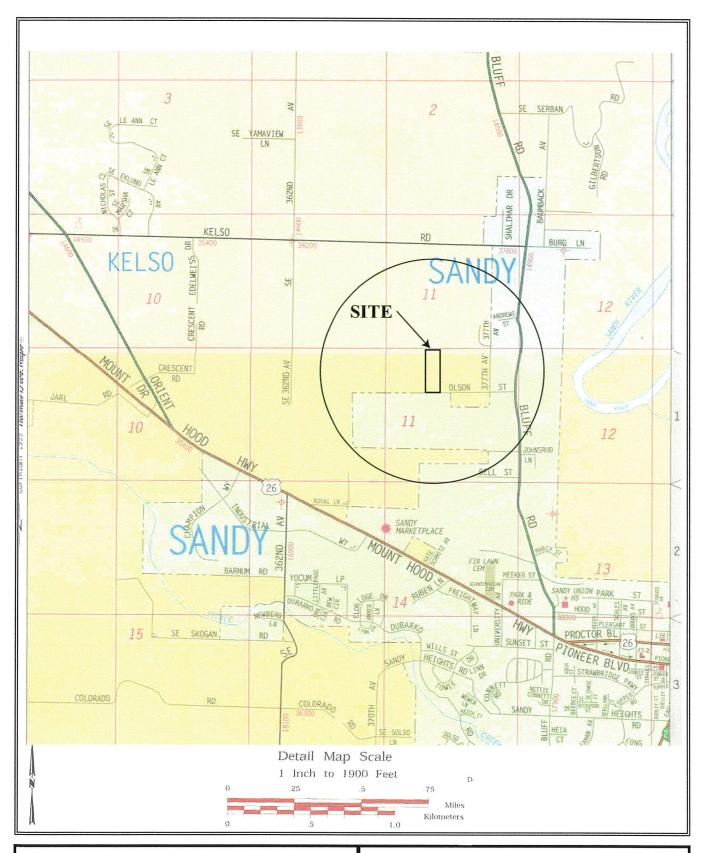
Assistant Director

WETLAND DE 'NEATION ANTENIMINATION REPORT COVER FORM

(This form must be attached to reports submitted to the Division for review and approval)

Oregon Division of State Lands Attn.: Wetlands Program Leader 775 Summer Street NE, Suite 100 Salem, Oregon 97301-1279 (503) 378 - 3805

	Business phone # (503) 655-6494				
Great American Development	Home phone # (optional)				
16500 SE Forsythe Road	FAX#				
Oregon City, OR 97045					
Authorized Agent:	Business Phone #				
Name and Address:	Home Phone #				
Joe Spaziano	FAX#				
· ·	5. 6				
	nd accurate to the best of my knowledge. My signature below				
authorizes the Division to conduct a site visit to confirm the					
Landowner: Sugar	or Authorized Agent:				
Date? / 2-13_00	Date:				
	ect Location				
Project Name: Sandy Bluff 3	Latitude: 45°24'41" Longitude: 122°16'47"				
Proposed Use: ~32 lot single family residential	Tax Map # Tax Lot # 800				
subdivision					
Project Street Address (or other descriptive location):	Township Range Section QQ				
~1/4 mile west of Bluff Road at Olson Street	2S 4E 11 AC				
On the Clarks	Waterway: None River Mile: N/A				
City: near Sandy County: Clackamas					
	neation Information				
Wetland Consultant Name, Firm, and Address:	Phone # (360) 696 - 4403				
Richard S. Bublitz, Environmental Technology Consultants	FAX # (360) 696 - 4089				
2400 Broadway	E-mail address: etc@teleport.com				
Vancouver, WA 98663-3229	0 .				
Primary Contact for report review is Consultant	Applicant/Owner Authorized Agent				
Date of Delineation Report: Wetland/Waters Present?	Total Site Acreage: 6.67 ac.				
11/20/00	Total Wetland Acreage: 0.70 ac.				
Other	· Information				
	Yes No Unknown				
Is any of the property crop land?					
If yes, is applicant /Owner a USDA Program Participant?					
If yes, has a NRCS Form 026 been completed for the site	e? <u> </u>				
Is the site zoned Exclusive Farm Use?					
Does site show as wetland on Local Wetlands Inventory?					
Has a previous Delineation/Application been made for property?					
If yes, Division of State Lands#					
NWI Quad Name(s): Sandy					
Site Zoning: Residential, 10,000 sq ft					
	fice Use Only				
Compa Uracat Mar:	114				
Corps Project Mgr.: DSL Wetl	and Mgr.: DSL WD # <u>Z000 - 06/2</u>				
Date Delineation Received://	DSL Project #				



environmental technology consultants

SITE VICINITY MAP Source: Thomas Brothers, 1999

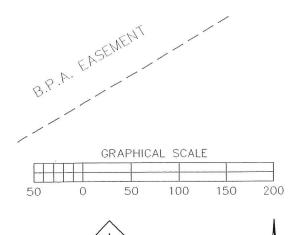
Subject Property: Proposed Sandy Bluff 3 Sandy, Oregon



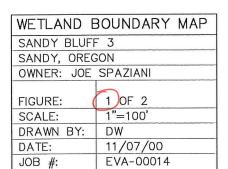








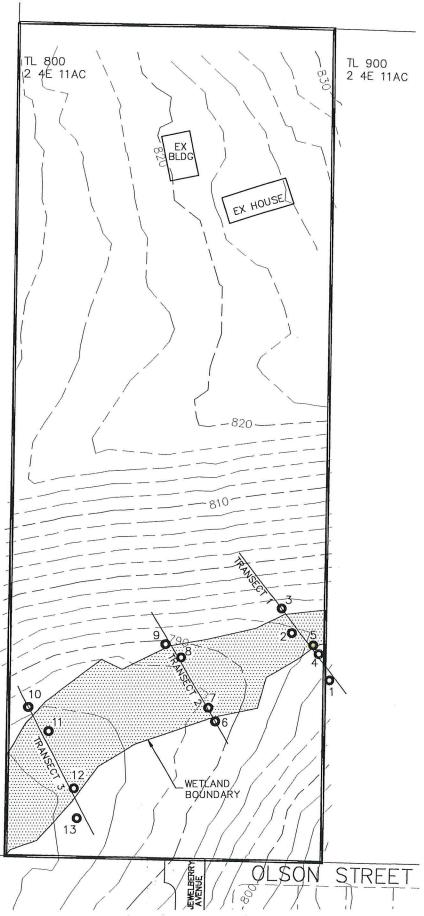
environmental technology consultants

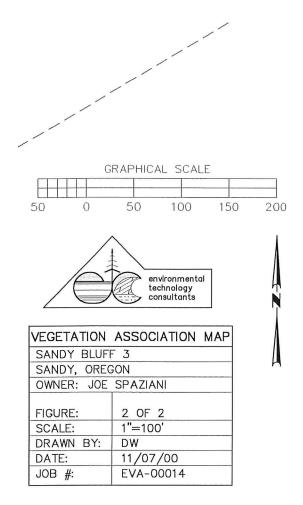


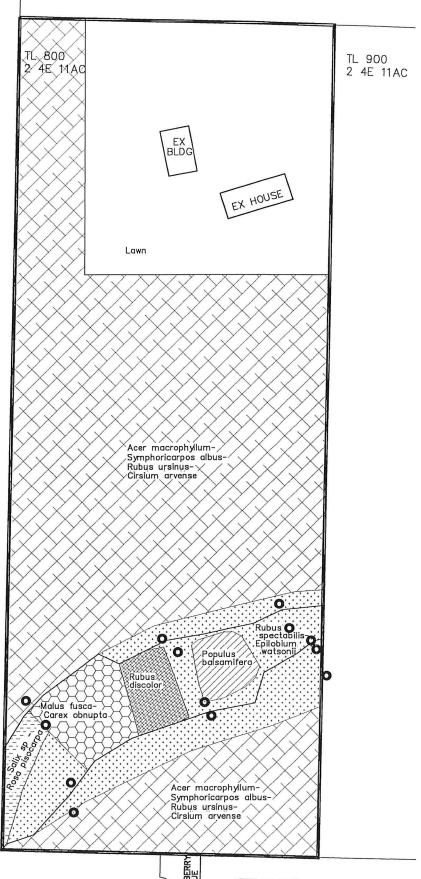
NOTE: WETLAND BOUNDARY WAS LOCATED BY ETC USING GPS TECHNOLOGY WITH DIFFERENTIAL CORRECTION (ACCURACY < 1 METER). TOPOGRAPHIC SURVEY WAS PERFORMED BY ASSOCIATED LAND SURVEYORS.

NOTE: WETLAND BOUNDARY FLAGGING PLACED BY ETC WAS FLUORESCENT ORANGE. FLAGGING PLACED DURING PREVIOUS PRELIMINARY INVESTIGATION BY OTHERS WAS PINK.

Det 00-0612







APPENDIX F - WD2017-0410

7 PAGES FOLLOW THIS PAGE

APPENDIX F



Great American Development

December 4, 2017

Attn: Joe Spaziani

16287 S. Forsythe Road

Oregon City, OR 97045

Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279

(503) 986-5200 FAX (503) 378-4844 www.oregon.gov/dsl

State Land Board

Kate Brown Governor

WD #2017-0410 Wetland Delineation Report for a Proposed

Subdivision Development, Clackamas County;

T 2S R 4E S 11 Portion of TL 2200;

Dennis Richardson Secretary of State

> Tobias Read State Treasurer

Dear Mr. Spaziani:

Re:

The Department of State Lands has reviewed the wetland delineation report prepared by Environmental Technology Consultants for the site referenced above. Please note that the study area includes only a portion of the tax lot described above (see the attached maps). Based upon the information presented in the report and additional information submitted upon request, we concur with the wetland boundary as mapped in Figures 6A and 6B of the report. Within the study area, one wetland was identified, totaling approximately 0.127 acres. The wetland is subject to the permit requirements of the state Removal-Fill Law. Under current regulations, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands.

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will review the report and make a determination of jurisdiction for purposes of the Clean Water Act at the time that a permit application is submitted. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

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

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

APPENDIX F

permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. Please phone me at 503-986-5232 if you have any questions.

Sincerely,

Peter Ryan, PWS

Jurisdiction Coordinator

Approved by fully

Kathy Verble, CPSS

Aquatic Resource Specialist

Enclosures

ec: John McConnaughey, Environmental Technology Consultants

Clackamas County Planning Department Dominic Yballe, Corps of Engineers

Anita Huffman, DSL

WETLAND DELINEATION / DETERMINATION READER ENVERY FORM

This form must be included with any wetland delineation report submitted to the Department of State Lands for review and approval. A wetland delineation report submittal is not "complete" unless the fully completed and signed report cover form and the required fee are submitted. Attach this form to the front of an unbound report or include a hard copy of the completed form with a CD/DVD that includes a single PDF file of the report cover form and report (minimum 300 dpi resolution) and submit to: Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279. A single PDF attachment of the completed cover from and report may be e-mailed to Wetland_Delineation@dsl.state.or.us. For submittal of PDF files larger than 10 MB, e-mail instructions on how to access the file from your ftp or other file sharing website. Fees can be paid by check or credit card. Make the check payable to the Oregon Department of State Lands. To pay the fee by credit card, call 503-986-5200.

check payable to the Oregon Department of State Lands. To pay the	e fee by credit card, call 503-986-5200.				
Applicant Owner Name, Firm and Address:	Business phone # 503-860-2501				
Great American Development, Joe Spaziani	Mobile phone #				
16287 S. Forsythe Road Oregon City, Oregon, 97045	E-mail: joeandpenny@hotmail.com				
Oregon only, Oregon, 97040					
☐ Authorized Legal Agent, Name and Address:	Puginosa phono # 260 606 4402				
Environmental Technology Consultants	Business phone # 360-696-4403 Mobile phone # 503-580-2465				
375 Portland Ave, Gladstone, OR 97027	E-mail: JohnM@etcEnvironmental.net				
I either own the property described below or I have legal authority to	o allow access to the property. I authorize the Department to access the				
property for the purpose of confirming the information in the report, Typed/Printed Name: Joe Spaziani	Signature:				
Date: April 20, 2017 Special instructions regarding site ad	coess: Contact owner or consultant.				
Project and Site Information (using decimal degree fo	rmat for lat/long of site or start & end points of linear project)				
Project Name: 37090 SE Kelso Road	Latitude: N-45.245314 Longitude: W -122.165512				
Proposed Use: New Subdivision	Tax Map # 24E1102200				
	45.411972 -122.282.009				
Project Street Address (or other descriptive location):	Township T2S Range R4E Section 2 // QQ AC				
37090 SE Kelso Road	Tax Lot(s) 00653705 2200 portion				
	Waterway: NONE River Mile:				
City: Boring, OR County: Clackamas	NWI Quad(s):				
,	eation Information				
Wetland Consultant Name, Firm and Address:	Phone # 360-696-4403				
John McConnaughey, PWS & Annakate Martin NRS Environmental Technology Consultants	Mobile phone # 503-580-2465				
375 Portland Ave, Gladstone, OR 97027	E-mail: JohnM@etcEnvironmental.net				
// . /	,				
The information and conclusions on this form and in the attac					
Consultant Signature: (Cramar, her)	Date: September, 2017				
Primary Contact for report review and site access is 🛛 Co	onsultant				
Wetland/Waters Present? Yes No Study Area					
Check Box Below if Applicable:	Fees: \$419 (2017)				
R-F permit application submitted					
☐ Mitigation bank site	Fee (\$100) for resubmittal of rejected report				
☐ Wetland restoration/enhancement project (not mitigation)	No fee for request for reissuance of an expired				
☐ Industrial Land Certification Program Site	report				
Reissuance of a recently expired delineation					
Previous DSL # Expiration date					
Other Information:	YN				
Has previous delineation/application been made on parcel?	☐ ☑ If known, previous DSL#				
Does LWI, if any, show wetland or waters on parcel?	ΝП				
	e Use Only				
	1_3_1_7 DSLWD# 2017-0410				
Date Delineation Received: 9 / 27 / 17 DSL Proje	With the second				
Scanned: ₩ Final Scan: □ DSL WN	# DSL App. #				

Electronic Submittal

