

Sordal Wetland Delineation

9/19/2018



Iris Koski and Kelsey McDonald delineated wetlands on the Sordal property on 9/17/2018. Biologist Iris Koski has completed wetland delineation training and is experienced with wetland delineation. Botanist/Biologist Kelsey McDonald assisted with plant identification and delineation.

A wetland was delineated in the pasture on the 001 parcel surrounding the spring and ponds (WD-3). The wetland vegetation was primarily characterized by penny royal (*Mentha pulegium*), and both wetland soils and hydrology were present at the site. The nearby cultivation site D is suitably placed, approximately 170 feet south of the wetland, and with over 50-foot buffers between the Class III intermittent streams to the northwest and southeast.

Several other sites were also investigated on 9/17/18. The spring box and lined pond area on parcel 007 did not contain dominant wetland vegetation. The wet area on parcel 007 near road point 12 contained a mix of wetland and upland vegetation, and appeared to show seasonal wetland hydrology with cracked bare soil, sediment deposits, and a visible drainage pattern (WD-1). No new construction is currently planned in this area. If any construction were to occur in or near the wet areas on parcel 007, a full wetland delineation with soil samples would be required.

On parcel 008, a small herbaceous wetland was delineated adjacent to the Class IV ditch and a gravel mining site (WD-2). The small flat was dominated by pennyroyal (*Mentha pulegium*), and showed evidence of wetland hydrology with drainage patterns, oxidized rhizospheres, and surface cracks in the soil.

Please see the attached map showing delineated wetlands and other wet areas. Additional wetland delineation is recommended if the client plans to develop any additional areas adjacent to springs, seeps, or wetland vegetation.

Please contact us if you have any questions.

Sincerely,



Kelsey McDonald
Botanist/Biologist



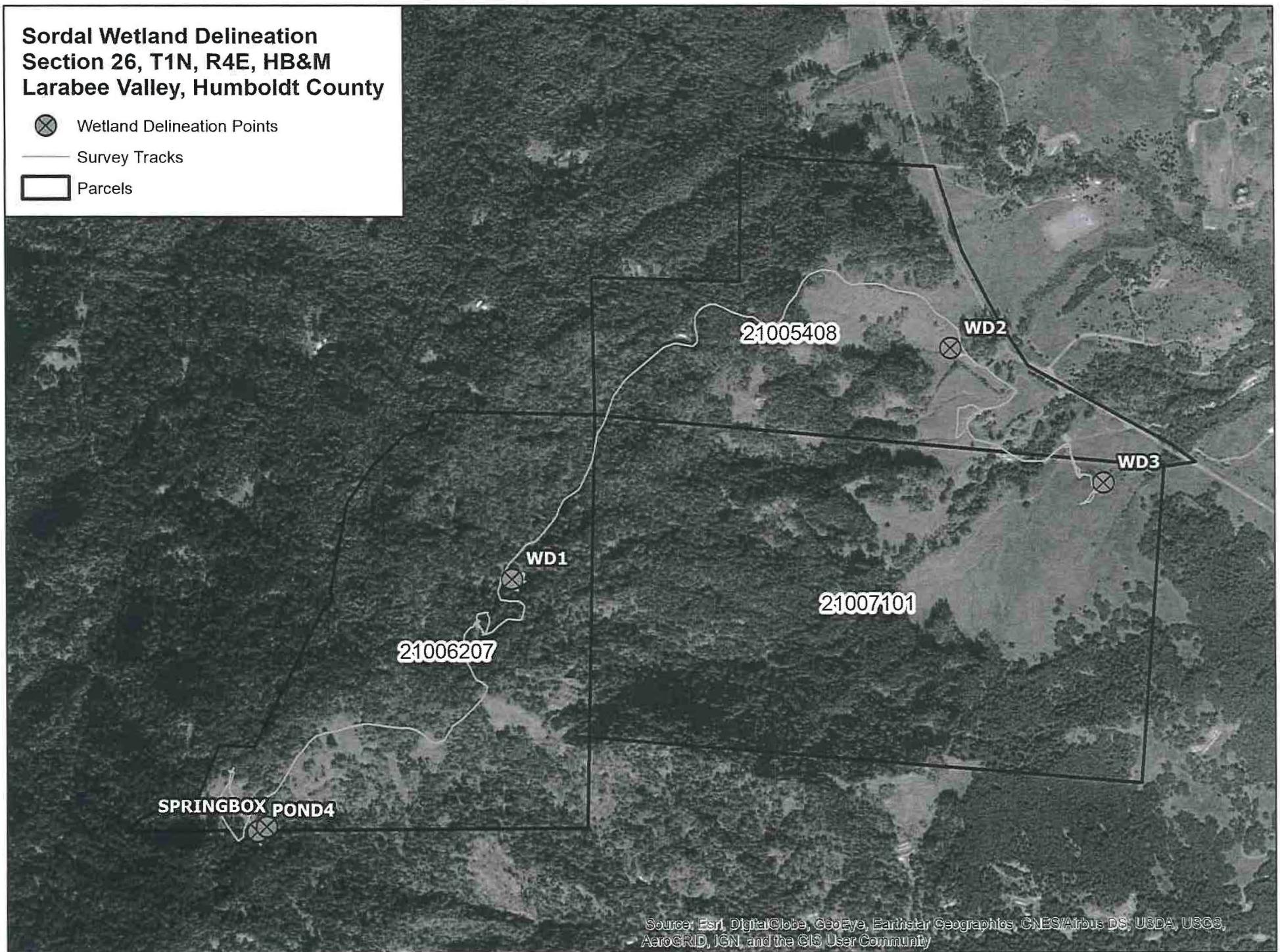
Iris Koski
Biologist

Sordal Wetland Delineation
Section 26, T1N, R4E, HB&M
Larabee Valley, Humboldt County

● Wetland Delineation Points

— Survey Tracks

■ Parcels



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Photo 1. WD-3 on Parcel 001.

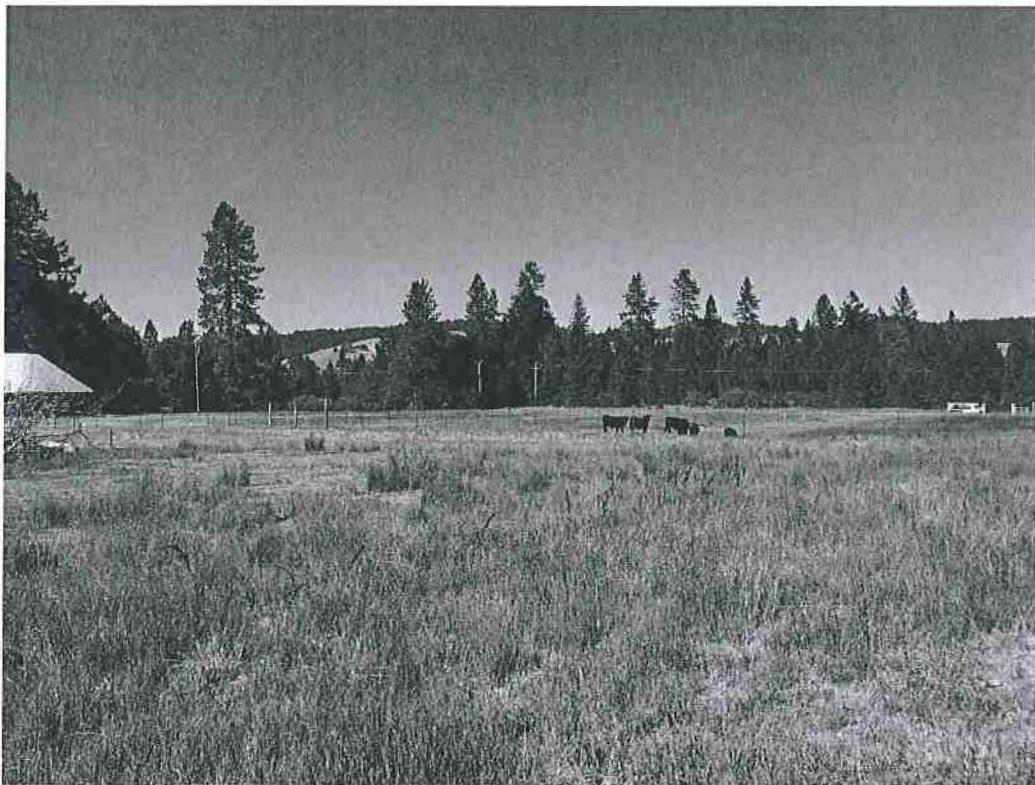


Photo 2. Wet Point on Parcel 007 near Road Point 12



Photo 3. Cracked soil indicative of wetland hydrology on Parcel 008, WD-3.



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

Project/Site: Sordal WD-1 City/County: Lakeview Valley, Humboldt Sampling Date: 9/17/18

Applicant/Owner: Sordal CO7 parcel State: CA Sampling Point: WD-1

Investigator(s): Tracy Kosty, Heskey, McDonald Section, Township, Range:

Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Concave Slope (%): 10

Subregion (LRR): Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No ✓ (If no, explain in Remarks.)

Are Vegetation ✓, Soil ✓, or Hydrology ✓ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No ✓

Are Vegetation ✓, Soil ✓, or Hydrology ✓ naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <u>✓</u>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes <u>✓</u>	No _____	
Wetland Hydrology Present?	Yes <u>✓</u>	No _____	
Remarks: <u>Dry season, appears to be a seasonal wetland</u>			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. <u>Pseudotsuga menziesii</u>	<u>5</u>	<u>Up1</u>		Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u> (A)	
2. <u>Acer macrophyllum</u>	<u>5</u>	<u>FACU</u>		Total Number of Dominant Species Across All Strata:	<u>2</u> (B)	
3. <u>Quercus kelloggii</u>	<u>1</u>	<u>Up1</u>		Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>50</u> (A/B)	
4. <u>Nototrichocarpis densiflorus</u>	<u>1</u>	<u>Up1</u>		Prevalence Index worksheet:		
	<u>12</u>		= Total Cover	Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: _____)				OBL species	<u>0</u> x 1 = <u>0</u>	
1. <u>Arctostaphylos manzanita</u>	<u>5</u>	<u>Up1</u>		FACW species	<u>32</u> x 2 = <u>44</u>	
2. <u>Quesadia</u>	<u>1</u>	<u>Up1</u>		FAC species	<u>32</u> x 3 = <u>64</u>	
3. <u>Symphoricarpos albus</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	FACU species	<u>58</u> x 4 = <u>232</u>	
4. <u>Sambucus nigra</u>	<u>2</u>	<u>FAC</u>		Up1 species	<u>12</u> x 5 = <u>60</u>	
5. <u>Ribes roezlii</u>	<u>1</u>	<u>Up1</u>		Column Totals:	<u>124</u> (A) <u>400</u> (B)	
	<u>23</u>		= Total Cover	Prevalence Index = B/A =	<u>3.23</u>	
Herb Stratum (Plot size: _____)				Hydrophytic Vegetation Indicators:		
1. <u>Tunica patens</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation		
2. <u>Brimus diandrus</u>	<u>10</u>	<u>Up1</u>	<u>FACU</u>	<input type="checkbox"/> 2 - Dominance Test is >50%		
3. <u>Monotropa uniflora</u>	<u>3</u>	<u>FACU</u>		<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹		
4. <u>Gymnosiphon elatior</u>	<u>10</u>	<u>Up1</u>	<u>FAC</u>	<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
5. <u>Festuca idahoensis</u>	<u>10</u>	<u>FAC</u>		<input type="checkbox"/> 5 - Wetland Non-Vascular Plants ¹		
6. <u>Pteridium aquilinum</u>	<u>5</u>	<u>FACU</u>		— Problematic Hydrophytic Vegetation ¹ (Explain)		
7. <u>Stachys rigida</u>	<u>2</u>	<u>FACW</u>		'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8. <u>Castilleja subterminalis</u>	<u>10</u>	<u>FAC</u>				
9. <u>Holcus lanatus</u>	<u>10</u>	<u>FAC</u>				
10. <u>Elymus glaucus</u>	<u>10</u>	<u>FACU</u>				
11. <u>Dactylis glomerata</u>	<u>10</u>	<u>FACU</u>				
	<u>100</u>		= Total Cover			
Woody Vine Stratum (Plot size: _____)				Hydrophytic Vegetation Present? Yes <u>✓</u> No <u>✓</u>		
1. <u>Rubus leucodermis</u>	<u>5</u>	<u>FACU</u>				
2. <u>_____</u>	<u>5</u>		= Total Cover			
% Bare Ground in Herb Stratum <u>2</u>						
Remarks:						

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

Project/Site: <u>Sordal WO-2</u>	City/County: <u>Lakeview Valley, Humboldt</u>	Sampling Date: <u>9/17/18</u>																																																																																																																																																																																																																																																																																								
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WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: SORDAL - SITE DIVB3 City/County: Lacabée Valley, Humboldt Sampling Date: 9/17/18

Applicant/Owner: Scodal COI parcel State: CA Sampling Point: WD-3

Investigator(s): Iris Koski, Helenkey, Mr. Donell Section, Township, Range: _____

Landform (hillslope, terrace, etc.): 5 Local relief (concave, convex, none): Concave Slope (%): 2

Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No

Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No _____	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No _____	
Remarks: Heavily grazed. Dry season.			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
	= Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. <i>Rosa rugosa</i>	1	UPL	
2. <i>Rubus arcticus</i>	1	FAC	
3. _____	1		
4. _____	1		
5. _____	1		
	= Total Cover		
Herb Stratum (Plot size: _____)			
1. <i>Monarda punctata</i>	35	Y	UBL
2. <i>Juncus effusus</i>	5		FACW
3. <i>Linum usitatissimum</i>	10		FACW
4. <i>Turritis glabra</i> brown headed	5		FACW
5. <i>Rumex acetosa</i>	1		FAC
6. <i>Hypericum ascyron</i>	3		UBL
7. <i>Scirpus microcarpus</i>	1		UBL
8. <i>Ligustrum vulgare</i>	10		FACU
9. <i>Anthoxanthum odoratum</i>	5		FACU
10. <i>Valeriana officinalis</i>	10		FAC
11. <i>Cirsium vulgare</i>	2		FACW
<i>Cynodon dactylon</i>	95		FACW
	= Total Cover		
Woody Vine Stratum (Plot size: _____)			
1. _____	_____	_____	_____
2. _____	_____	_____	_____
% Bare Ground in Herb Stratum	5		
	= Total Cover		
Remarks:			

Dominance Test worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:
Total % Cover of: _____ Multiply by: _____

OBL species 39 x 1 = 39

FACW species 20 x 2 = 40

FAC species 1 x 3 = 3

FACU species 25 x 4 = 100

UPL species 5 x 5 = 25

Column Totals: 95 (A) 217 (B)

Prevalence Index = B/A = 2.23

Hydrophytic Vegetation Indicators:

- ✓ 1 - Rapid Test for Hydrophytic Vegetation
- ✓ 2 - Dominance Test is >50%
- ✓ 3 - Prevalence Index is $\leq 3.0^1$
- ✓ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- ✓ 5 - Wetland Non-Vascular Plants¹

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes No

