



Portland  
State  
UNIVERSITY

The Environmental Professional Program  
Wetland Delineation Program

### **EPP 717 – Hydric Soil Indicators for Regional Supplements**

**Course Summary:** This is a recommended 2-day advanced course for wetland delineators. The course covers the fundamental relationship between soil formation and hydric soil indicators, in the context of delineating wetlands according to the procedures and standards established by the new regional supplements for the Western Mountains, Valleys and Coast, plus the Arid West. This lecture and field course will focus on a hands-on understanding and the ability to interpret landforms, document soil profiles, describe redoximorphic features, and hydric soil determination. One-half of the course will be lectures; the remaining time will involve numerous field stops within the Portland Metropolitan area. Field study will include examining redoximorphic features, describing drained hydric soils, and properly applying hydric soil indicators. Other topics include landforms and geomorphology, soil taxonomy and chemistry, sampling depths and measurements, and analysis of wetland situations lacking hydric soil indicators.

This course requires some wetland hiking, carrying field gear and some labor. Hiking/walking may involve slippery or wet, uneven ground that is often without trails.

**Duration:** 2 days in the field and 1 day of pre-recorded online lectures.

**Topics:**

- Soil Formation and Landforms.
- Hydric Soils and Redox Features.
- Soil Color Re-Cap.
- Hydric Soil Indicators.
- Problematic Hydric Soils (incl. rocky soils, fill material)
- Relict Hydric Soil Characteristics.
- Newly Formed Hydric Soils.
- Field Exercises and Data Review.

**Available Professional Credit:** 2.4 CEU, or 24 PDH.